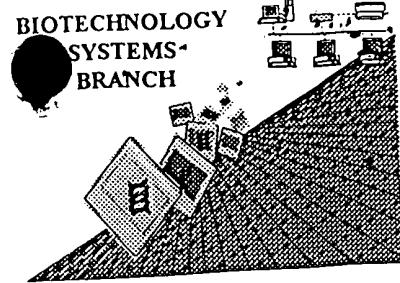


CD

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/914549
Source: PCT 09
Date Processed by STIC: 09/27/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE
APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A
NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25. Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> 09/914 549
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO		
1 <input type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (ii) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences. Sequence(s) _____ missing. If Intentional, please insert the following lines for each skipped sequence <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input checked="" type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	

PCT09

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:28

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Output Set: N:\CRF3\09272001\I914549.raw

4 <110> APPLICANT: Poustka, et al.

6 <120> TITLE OF INVENTION: Protein (TP) That is Involved in the Development of the

Nervous

7 System
9 <130> FILE REFERENCE: K 3008
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/914,549
C--> 13 <141> CURRENT FILING DATE: 2001-08-24
14 <150> PRIOR APPLICATION NUMBER: PCT/DE00/00583
W--> 15 DE 199 08 423.8 - *Erroneous text*
16 <151> PRIOR FILING DATE: *2000-02-28*
W--> 17 *1999-02-26*
19 <160> NUMBER OF SEQ ID NOS: 39
21 <170> SOFTWARE: PatentIn Ver. 2.0

Does Not Comply
Corrected Dispite Needed

ERRORED SEQUENCES

5290 <210> SEQ ID NO: 39
5291 <211> LENGTH: 81369
5292 <213> ORGANISM: DNA
E--> 5293 <214> Homo sapiens
W--> 5295 <212> TYPE:
5295 <400> SEQUENCE: 39
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5318 ttagattcac tatttggcaa ataaaaggaa tcaagtcata agatcaagct gatgaatcaa
5320 cacccatag gatatgtccc aaccaattat atggcttccc ctataaataa aatctatgttc
5322 tcttctctgg agaggaacag tgaagaatat cataacctat gctacaaaact gcttgagtag
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5332 ggggaggcct cacaatcatg gcgaaagact aataaggagc aaagtcacat cttacatggc
5334 tgcagacaag agagcatgtg cagggaaact gtcctccata aaaccatcag atctgtgag
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5346 ctcaactcttag tttgcccacc tgaggtaaga gatggtccag attagcaaca acaatctgt

Invalid field 213 response: "DNA"
should be in field 212.
FYI: there is no field 214.
Also each prior filing date must
appear in an individual field 151
preceded by respective individual
fields 150.

1. Edit field 213
delete 214
2. delete erroneous text
3. field 150 is required
before each 151
4. Header 151 must
precede each prior
application date.

60	120
	180
	240
	300
	360
	420
	480
	540
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	660
	720
	780
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:29

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5360	ttttaaaggc	atgccagaca	ggatctgcgg	caagtttca	atgttactgc	tgccatctgt	1920
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5364	ttcaccccca	tctagagata	ttcacttact	gaagtgcctt	tttaaagcaa	tgttcctcac	2040
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914,549

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TIME: 12:13:29

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:29

Input Set : A:\SEQUENCE LISTING.txt
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5582	ttagtgaaca	gtattcttat	gattgttagt	gaatttagaga	gcagaataca	tctagaagat	8580
5584	tcagtagaa	gcatgtttct	tcgattaatg	gaaaatttga	atagcctagc	tgattgagat	8640
5586	tgaggtaact	attaaatgccc	tgaagtataa	gagttgggtt	tttatgtaaa	caaaatatct	8700
5588	gttttacatg	tacatgtgt	agtaggactg	tttagccccca	gtaacatgaa	atataaaaa	8760
5590	gcatgactcg	aatacctgccc	atatacgat	ctattacatc	aaaaaaagg	cgtgtgctga	8820
5592	aaaattacct	acaaatggca	ttttccctcaa	atcaattttt	aatcttcaga	atttcatttt	8880
5594	aataattgtt	tagttaat	ttcagaatcc	ctcatcataa	aaagcaggca	aaaggcaaaaa	8940
5596	gtccttgaat	gtataacaca	tttgcatttca	aacaaggctg	cctctaactg	tgaatccagg	9000
5598	agtgaatcca	gaactacaaa	ttaactaaga	ttggcccat	cgagttactg	aacgttaaaaa	9060
5600	atctaaaaac	taaaaggcat	gcctcaacaa	tttgcattttt	cttggaaatca	ttaattaacc	9120
5602	tatgtgtatc	caaaacataa	tcttccagca	gttgcgtag	ctacattttt	aattacttaa	9180
5604	tatcatgtaa	aatttgcattt	attattgttc	agttctgaat	tttgacat	gcatcaagcc	9240
5606	atgcaactgc	taccacagtc	ttcctgatca	ctgatctgtt	ctaaatctct	atagcatttt	9300
5608	tccttttctt	aatgttgca	taaataaaaac	catacctt	gtggcccttt	gaatctggca	9360
5610	tcttaactt	aatgcgttgc	aaattatct	atgtcatttc	atgtatcaat	ggctcaatct	9420
5612	tttaattgt	taagaaaaaa	tgtatgttgc	gataaaatc	tttcttaatg	agttttgtt	9480
5614	cacaatgtg	agtgtttgtt	taggatagag	tcctagaaat	ggtatcacta	ggtcaaaacat	9540
5616	tcaaataatt	ttaaaatatt	tgatacatat	tgccaaatata	tctcaaattt	tttaccaata	9600
5618	tacattttag	acagtatgg	ataaaatgtt	cttcttata	ccaaactgaca	acattaaatga	9660
5620	taatacataa	aatattcttt	gctaatttga	ttggacagaa	atgttataatc	cttattagca	9720
5622	tttttatttt	gtgggttgaat	gactgtactg	tacagccaga	gatatttgg	tcaaaaatcca	9780
5624	tcttcattat	ttactgtatg	tggaaatttta	ggtgagctat	ttaatctt	gatgccttag	9840
5626	tctcctaattc	tataaaagtgg	ggataattgt	accaatcata	ttagttccct	gtgagaatta	9900
5628	actgaattac	tatagaaaaat	gcttagaaatg	gtatctactc	accaggaagg	actctctctg	9960
5630	tattactgt	ttattatcta	acacgtttaa	ttattaatga	agtcgtat	cgtttatatgc	10020
5632	ttgggatatt	tggaaactttt	cttagtgaat	tttccaataa	aattatttgt	ctatttttt	10080
5634	atggacaagt	tggtattttt	cttactgttgc	tgtttcaggt	tcagttagta	agaattttaa	10140
5636	ggattttctt	tcacatttt	gcaaactttt	tctgcatttt	atcttttcc	tttcagataaa	10200
5638	tgtttgcaaa	atgtaaaaaa	aacaaaaggt	tttcttcatca	agttggatc	tttatctttt	10260
5640	ttattgtttt	gtgatttgaa	aattctgtc	ctgagaacca	aaatataat	ttgatgaaat	10320

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:29

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

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5646	ccaggTTTct	attgtttctt	ctgttccTT	tataatgctt	tttctgaagt	tatTTTcct	10500	
5648	agacttaaaat	attagtataa	tattatcata	gaggaaaaaa	tatctgttag	ctatgaataa	10560	
5650	aaggcttca	tcttattgtt	gcattaat	atttaaaatgt	agagagcata	cagattagca	10620	
5652	aagaaaaagt	ataattgcct	tttttata	ttgacatgaa	catgtataaa	gaaaaccaa	10680	
5654	aaaaatcaat	aaaacaacta	gaacttatta	gtgaattttag	caagatcata	gcatacAAag	10740	
5656	ccaagattca	aaattccatt	ttatTTatct	actaacaAAA	aatatttga	atttgaaaat	10800	
5658	ttaaatatgc	catttacaat	aacatcaaaa	tattgaacaa	taaagtattt	aggaatttat	10860	
5660	aaaatgaaat	ctcctatacc	aggaatttaca	gaccattgt	gaaataaATg	aaagaagacc	10920	
5662	aatatatgt	aagagatact	catttgtgga	ttgagagaca	atattgttaa	agtatcgt	10980	
5664	tttcccaa	aatatcaatag	attcaatata	atggtaaca	gaacaccaga	agatgttctg	11040	
5666	tgcgaagctga	caagcttattt	ctataattca	aatggAAAatg	caaaaggcag	tcactgcAA	11100	
5668	caccagcatg	gactgtctgg	gttccagtag	gttacttcac	tactgcctt	tctgtcagcc	11160	
5670	acatcacgac	agctgcccag	aagccagaga	aactcctcac	acctggccca	ctgctgcagc	11220	
5672	taccagcatc	caggcaagcc	accatcagcc	cactggtaac	tgccaaacaga	ggtaccactg	11280	
5674	tacactaccc	tggggAACaa	agataggcat	gtagtccagcc	cacctctgCC	accactaggg	11340	
5676	cctgaagctt	ggcccacctg	acactgcagt	cctcagcaca	gcttcatcac	agttctgtt	11400	
5678	aataaccaca	ccctaaccata	ccaaggAAat	cacaatgtc	actgacactg	ttttagccA	11460	
5680	aagaaatcat	agagagacta	cattactgca	cacacccata	atcaaAGCCA	cagtacccta	11520	
5682	tccagacaac	atcacaggt	tatctaaagg	aaaaaatttt	cccatatgaa	agcgaattca	11580	
5684	aatatagggaa	gaagcgactg	ttacaacaga	tatgcagata	aagttcaac	aatatcctac	11640	
5686	attcaaccag	aagaaagaat	ctcagaaggt	aaagacaggt	ttctgaaat	aatctagtca	11700	
5688	gacaaaatta	aaagagaata	atcaaattct	tcctgacatt	tgggataaca	ttaaagtgac	11760	
5690	caaataatac	aattatagat	acccttgaga	gtggaaagac	aaagaaaaa	ttagaaaacc	11820	
5692	cacttaatta	aataatata	gaaaacttcc	taagtctagc	aagagtttta	gatatttggg	11880	
5694	atgcaggagg	ctcaatggtc	cccaggccga	taaaacgcaa	aaaggctta	tacacagcac	11940	
5696	attacaatca	gactgtttaa	agtcAAAGat	aagaataaa	ttctaaaaac	agcaagagaa	12000	
5698	agtgtatgt	aacctatgaa	gttAAACCTA	tcagactgac	agcaaatttC	tggcagaaac	12060	
5700	tttacaggcc	agaaagaata	ggacaatata	ttcaaagtgc	ttaaagaaaa	aaaaactat	12120	
5702	cagcTTaaa	tactatagcc	cacaaaatta	tcTTTcataa	atgaaggaga	aataaaagg	12180	
5704	ttcccagaca	cgaaaatgt	gaggtagttt	gttactacta	gactggacct	acaataaATg	12240	
5706	ctcaaggggag	gtctggaaac	tggtagtga	aggacgacat	ttatcatcat	gaaaatacat	12300	
5708	gaaagtataa	aactcccTgg	taagcaacta	aagggaggta	tcaaATgttA	ccaccagaga	12360	
5710	aatctaacta	accacaatga	caaacaataa	ggggaaaaa	aaggAACAAA	aatatataa	12420	
5712	acaacaaata	aacaacaata	taacaggaag	cctcacat	cgtatcac	tttgaatgt	12480	
5714	aatgaattac	atttccacc	taaACGTT	gaaatgcctg	aatgataaaa	ctatATgt	12540	
5716	caaataata	ctgattacaa	gaaacttacc	aggcagacat	acatAGCTG	aaagtAAAAG	12600	
5718	aatggtaaaa	gatattcTT	gcaaaatggaa	agcaatagt	agcaggagta	gctatacttA	12660	
5720	aattagatca	tacagactt	aagtcaaaaa	gatgaaaata	aaaaagacaa	aggatgttat	12720	
5722	tatataatga	tgagattaac	ccagcaatgg	gaaataacaa	ctctaaatgt	atatgcattc	12780	
5724	aacacttag	aactcagatc	cacaaAGCAA	atattagacc	taaagagaga	aatagactgc	12840	
5726	aatacagtaa	tagtgaggaa	cttcaacact	ccactttcag	tattagacag	ataatctagg	12900	
5728	caaaaaatca	accagtaaaat	tttagattt	aactagattt	tagccaaat	ggacctaaca	12960	
5730	gacatttaca	aaacattcca	tccaaaccact	gcaAAatgaa	atttggTca	tcagcacatg	13020	
5732	aaacaatgtc	caagatagac	caccat	tagGCCACAA	atcatgtctc	agcaattttt	13080	
5734	taaaagtta	aatcatatca	cata	tctc	cagaccactg	ttgaataatg	ctagaaatca	13140
5736	atgccaagaa	taacgttgg	aactata	aca	atacatgcag	attaaacaac	atgttcttg	13200
5738	ttgatcactg	ggacaataag	gaaat	taa	g	taacaaataa		13260

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:29

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

5740	agattgaaac ataacatatac aaaaccagtgcatacagca aaagcagtgc taagaggaa	13320
5742	gtttatagca ataaatgc ttacactgaaaa agtagaaata tttaaaaatt agcaacctaa	13380
5744	caatgtgcct gaagaaacta aaaaatcaag aacaaatcaa accaaaaatc agcagaagaa	13440
5746	acacaaaaat aaagatcaga aaagaactaa atcaaataga gactaaaaaa atacaatga	13500
5748	ttaacaaaac taaaatttgg ttattcaaca agataaataa aattgataaa ccgctagata	13560
5750	gactaaacaa ggaaaaagaa tatccaaata aacacaatca aaaacgataa aggagacatt	13620
5752	acaacagatg ccacagaaat aaaaaggatc atcagagact attattaaca actatatgct	13680
5754	aaaaaatgga aaatatacgaa aatagataa attcttagaa acttacaacc taccaggctg	13740
5756	ttgcatcagg aagaaaataga aaacctgaac atatcagtaa tgattagcaa aattgaatca	13800
5758	gtaataaaaa acatctccca actcttttaa agcttggac caaatagcat cacagcctaa	13860
5760	ttctaccaat catgcaaaga agaataccag tcttcttgat gctattacaa taaatcagag	13920
5762	gaaggaattc tctctggctc attctacatg accagtgtca ctttggaaacc aaaacctgac	13980
5764	aaggacacca caaaaagaaa actacaggcc aataaccatg atgaacacag atgaaaaat	14040
5766	cattaacaaa atactggcaa acggaatcca acagcacatc aaaaaaataa tataccacaa	14100
5768	tccagagggt ttgtatcaag gatacaagta tgactcaatg taaataaatac aataaacatg	14160
5770	ataagcatct tcacagaata taagacaaat gaatatatga tcatctcaat agatgcagaa	14220
5772	aaaaattttt gataaaatttc aacatcttt catggaaaaa atctctaaaa ctcagcatag	14280
5774	aagaaacata cctcaatata ataaaggcca tatgtgacaa actcagagct aatatcatac	14340
5776	agaatgggc aaagttaaa gactttcctc taagaactgg aacaagacaa ggatgcaaac	14400
5778	tctcaccact cctatccaca tagtactaga agtcttagcc aaaacaatca gacaagcaaa	14460
5780	agaaataaaa agtatctaa ttgagaagag caagtaacat tggccctt tgcgtatgat	14520
5782	atggtttgt atctggaaaa tactaaaaac tccagcaaaa acctctttaga tttgattaat	14580
5784	taatttagta aagttcagg atacaaaata aaaaatacaaa agtcagtagc atttctatgc	14640
5786	cccaataata aaatagctag gaaagaaatc aagaaagtga tcccatatca attagctaca	14700
5788	aaaaattaaa atacctggga ataaatcaag gaagttaaag atctctgcac aaaactacaa	14760
5790	aacactgtg aaagaaatta aggattaaac aaacaaattt agaaacatcc catgtttatg	14820
5792	gatcaaaaaga attaatatca taaaatgac catacttccc aaagcaattt ccacattcaa	14880
5794	tgcaatttct accaaattac caatgtcata tttcatagaa ttggataaat cctaaaattaa	14940
5796	gtatggatg agaacagagc ccaaatagcc aaagcaattt tggacataaa gaacaaatct	15000
5798	ggcctgact taatcactat gcaatctatg catgtacaa aattgaacat ggattttatc	15060
5800	aatttgcata aataaaaaaa tgtaaaaaaa gaacaaagct ggaggctata gtggccaaaa	15120
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5804	atattttgtg tggatgtgtg tggatataca cacatacatg tatataataat gtgtacatata	15240
5806	aatgtttct acatgttcta atatttatat tccattccat tatacatatt ccatttctgt	15300
5808	atatacgatc tatagaattt gaagactatc tggccattaaa aagaatggaa tcctgtgatt	15360
5810	tgcagcaaca tggatgtgtg tggatgtcat tatcttaatg gaaataatct aggcacaaaa	15420
5812	agataaaat cacatgttct cacttatatg tggagctaa taacttgatt acatgaaggt	15480
5814	ggagaatgaa aagtaggtt gggaaacagag actggaaagg atgaatggag ggtggaggg	15540
5816	aaggtaaga gaagagatgtt aaaaagggtt aacatatagt taaaagaaat aaattcaatg	15600
5818	cttgatagca gatgtactgt actacagttt aacaaatgtt ttatacttcgt gtgtatgaa	15660
5820	cctaaatact tgatcactat gcaatttatat acgtgtacaa aatctactat gcaactatata	15720
5822	cgtgtaaaaat taaatgcgtt caaataaaaa taataaaaata ctaatccagt atcattcact	15780
5824	gacaatgtt actcagggtgg ataggcatta agtcaatact actataagaa ccacttcttg	15840
5826	tttatgtttaa tggccatatacg aatggaaataa aattctactaa aatccaaaaa attagaaaaa	15900
5828	ctatcaaaaac tcaataataat taagacaacc caataaaaaat gtggatggaa gatttgcata	15960
5830	tacatgtcact caaaaaatattt attcaatattt ccaataataa catgtacaa tggtcgacat	16020
5832	cgtagtcat cagagaaata caaaataaaa tgtaatggat atactactatc ataggctttt	16080
5834	acagagactg acaataccaa gtattggacaa ggatgtggag caactgaaat tcttattcc	16140
5836	tgtggtaaga atgtacattt atataaccac attggaaaaaa caagtttca gtttctttat	16200

RAW SEQUENCING LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:29

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

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5848 aggaattaaa ctatagtaga aggttctcat ttattggat gattagaacc agccttttg 16560
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5860 cattctatta gtctgttctt aaactgctaa tgaagacata ccccaaattt ggtactttat 16920
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5874 atgccccttcc aacagtcccc ccaaagtctt aacacatttc agtattaaca caaaagtcca 17340
5876 agtccaaagt ctaatctgag acaaggcaag tcccttctgc ctatgaggct gtaaattcga 17400
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5934 ctcttgagaa cagcatgagg gtaaccatgt ccatgattcc attacccccc aacgggttcc 19140

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914,549

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Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

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5940	ttttaaaaga	tttgagcaac	cacaaatgac	agatatgtc	tatagtatgt	caaaatacca	19320
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5946	aatcagccctt	aacaataatt	ctataaattt	aattttctt	atttctgata	attacatttt	19500
5948	agttgacttc	atatgtgatc	taaatacatt	accattattt	tggacttatg	atgtagctct	19560
5950	tgaagtacat	atatgtatgt	gctcttaaag	tacatataga	agagcagata	aagtatcagt	19620
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5954	ttgcaggagc	cttttaaattc	catgtgtcca	ttttatgaga	cttagcttt	gtctgtatat	19740
5956	aatgtgttta	ttcagtgtgc	atggattaaat	ttgagagagc	acaggtatgg	gtatcttac	19800
5958	agcagtggcc	cactcctggc	accaatttac	tgtatttagt	tattctcatg	ctactaataa	19860
5960	agactatata	tcacaataaa	ctgagaacca	gctggtaaat	gagagaactg	tggtccac	19920
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5964	taatcta	cattcaactaa	atgaagg	tgtgttagcc	tccacatgat	attaatacag	20040
5966	cctat	ttatccttct	tttagattaa	aataaataag	tagtcatgtg	ccacagaatg	20100
5968	acacttc	catttgg	ttgaagg	acatctatta	ctgtggcca	ataagattat	20160
5970	aataacat	tttcc	cattt	gttctgat	gtttgatac	ataaaatgctt	20220
5972	accatcg	tgatgtgc	tcagtttac	agtagcgtaa	catgctgtac	acttaggagc	20280
5974	aacagg	accacat	tttaggtat	agttagg	taccatct	gtttgtataa	20340
5976	gtacact	tgtatgtc	acaatga	aaatcac	atgatgcatt	tctcaaaaca	20400
5978	tgtcc	ctgtc	attaatacag	tatgtacaa	tacagtt	acaatatgt	atacatgact
5980	atattc	agaa	ttttagctat	ttctcttata	tttcaatgg	atttctt	gcactgtgt
5982	gcacgg	gcatt	ttcatttt	taaccac	ctggaaagg	agaagtctt	gaaggatgtt
5984	gagca	agg	atgacatggc	cagatgtgaa	ttttt	gtgactccat	gttagcagat
5986	aaagt	ttgtat	tggaa	aaagat	caaaagc	atggccagat	aaggagatac
5988	catgg	atgtg	gggg	atggcaggag	agatgctat	attgaatgaa	tctcaatatt
5990	cttgg	gtatc	aaagaata	atgactc	caataa	gact	ctgtgaatga
5992	ttc	ctaa	agg	gaga	atgag	at	ttgaatgt
5994	ttt	gat	ttt	aga	aca	aaaga	ataaattt
5996	aagg	at	aaaa	aat	ttt	gt	tgattcctgg
5998	gtgat	ctt	tca	cac	at	ttt	ttgaattttt
6000	tctt	ccaaa	tat	ca	ttt	ttt	ttt
6002	ttt	cc	tg	gaa	at	ttt	ttt
6004	aataa	attt	gt	ttt	ttt	ttt	ttt
6006	ttc	act	gt	tc	ttt	ttt	ttt
6008	ctc	ag	tg	ca	ttt	ttt	ttt
6010	tct	tac	cc	cc	ttt	ttt	ttt
6012	ctt	ttt	cc	cc	ttt	ttt	ttt
6014	agc	cac	aa	ttt	ttt	ttt	ttt
6016	tcc	ttt	cc	ttt	ttt	ttt	ttt
6018	cc	ttt	cc	ttt	ttt	ttt	ttt
6020	at	at	at	at	at	at	at
6022	at	gt	ta	ttt	ttt	ttt	ttt
6024	tt	gtt	ta	ttt	ttt	ttt	ttt
6026	tat	ctt	ta	ttt	ttt	ttt	ttt
6028	ta	gat	ta	ttt	ttt	ttt	ttt
6030	aatt	act	ta	ttt	ttt	ttt	ttt
6032	tata	at	ttt	ttt	ttt	ttt	ttt

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:29

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

6034	ttcaatttgtat	tacaatctaa	ttcagaaaaga	tttatgttgc	cataatctc	cttacaataat	22140
6036	cgatatgttt	gtttaaaaat	ccagcaatta	tttcatagt	ctaattttag	atagttcttg	22200
6038	attaatttttta	tatgatctct	gaaatataatc	actggatctg	ttgtgaatga	taaatcaaaa	22260
6040	atgaaaaatg	gacattacat	cattaaggttc	tagttgtct	tactacttct	tatgacattt	22320
6042	gatatagaaaa	atttctacct	ttctgtacgt	tttaatttggt	gttttctgca	tgtattttatt	22380
6044	ctgaaattct	ctaataatctg	caagtggaa	ttatgtggct	aaaattaata	aaatgttaagt	22440
6046	gaaggtaaat	caaaatagaa	tctttggatt	tatccagtt	tctgaaagta	catttcattt	22500
6048	ccttaattca	cactttataa	attttctac	ataaagttt	tctgtaatat	ttgtctttat	22560
6050	agctgaggac	agattcagag	aaacgctcca	ccacagacga	gacctggat	agtcctgagg	22620
6052	aactgaaaaa	accagaagaa	gattttgaca	gccatggga	tgctggggc	aagtggaaaga	22680
6054	ctgtgtcctc	tggacttcct	gaagaccccg	agaaggcagg	gcagaaagct	tccctgtctg	22740
6056	tttcacagac	aggttcctgg	agaagaggca	tgtctgccc	aggagggcgc	ccatctaggc	22800
6058	agaaagctgg	aacaagtgc	ctcaaaacac	ccggtaggct	tgtcggttgc	cagctgttat	22860
6060	gcaaaagtgc	tttactttat	tgttccatt	caatcttgc	tttctctaac	aatagcattt	22920
6062	ctaaaatacc	aaattcttat	ccatattaaa	catggagtca	aatagttaaa	tagttttct	22980
6064	gtctacgtt	cacaaactcg	tcatagaagc	ccaaatgggg	cctataatcta	ggcattctct	23040
6066	gaaagcctc	ctcataaaact	aggggtactg	gatgccttac	ttgcccagag	ttatttcagg	23100
6068	taatggggaa	ataagattag	gttgctaaag	caacagttaa	gttttttgc	tttggctctg	23160
6070	cgttcttaat	gaaagtttgg	aatttttaca	ctaaatatgc	cactgaatttgc	cactacagac	23220
6072	tctgagagga	acaagcaatg	acactaatca	atttggatgc	tggagatttgc	aaatattgtc	23280
6074	tgtgttattag	acttcatgaa	agaagagaat	gaaatagtgc	ttcaaaatttgc	tgccataactt	23340
6076	tttttaaaaa	gactctcccc	gtatttttaa	aataatgcct	aattataat	atgtccaccc	23400
6078	gaagcactaa	ttaacagggt	actccaaata	taatcatctc	acagatatttgc	aatgaatttgc	23460
6080	tttttctagt	aatttagcttgc	atagggtttaa	gtgttacctt	ttttaaaaaga	gttgcaaaat	23520
6082	ataagacatt	aacaaatagc	aaaacatatg	ttttcattttt	atctcttcca	tctctcataaa	23580
6084	tgttcttct	gacagccaaa	tttttggtagc	tatgcactca	gtcctctcaa	tatatgagat	23640
6086	ttttgatcta	agccaataca	tttaggaagg	gaaataatat	aaagaagcat	tcacatttttgc	23700
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6090	ctccttaatt	aggaaaaacc	gatgatgcca	aagttctga	gaaaggaaaa	gctcccctaa	23820
6092	aaggatcatc	tctacaaaga	tctccttgc	atgcaggaaa	aagcagtgg	gatgaaggga	23880
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6096	caagtggagt	aggttcatct	gccatgatca	ccagcagtgg	agcaaccata	acaagtggt	24000
6098	ctgcaacact	ggtaaaaattt	ccaaaatctg	ctgcccattgg	cgggaagtca	aatgcaggga	24060
6100	aaaaaaccag	tttggacgggt	tcacagaatc	aggatgtgt	tgtgctgcat	gttagctcaa	24120
6102	agactaccct	acaatatcg	agcttgccttcc	gcccttcaaa	atccagcacc	atgtggcatttgc	24180
6104	ctggccgagg	agccacaga	tccagttacca	gcagtatttgc	ttccaaacgtc	agcagcaagt	24240
6106	ctgctgggc	caccacctcg	aaactgagag	aaccaactaa	aattgggtca	gggcgtctcg	24300
6108	gtccgtc	cgtaaccaa	acagacaagg	aaaaggaaaa	agtagcagtc	tcagatttgc	24360
6110	aaagtgtttc	tttgcgttgt	tcccccataat	ccagcccccac	ctctgccc	gcctgtgggt	24420
6112	cacaaggct	caggcagcca	ggatccaat	atccagatat	tgcctc	acatttcgaa	24480
6114	ggtaaggatg	tataaaatgt	tgctggaaaa	atataaaggaa	taaatatgttgc	ttagacacat	24540
6116	acattacata	taaatgtgt	tatataatata	ttttaaatat	gtataaggta	tataatataat	24600
6118	atatcttaga	attttttaaa	gtacacagt	agctctatgc	agcttcat	ataaaacagct	24660
6120	agcaaaaaaa	atagttctca	ttttgagaaa	cagtcaact	tcaaagtttc	actgtcatttgc	24720
6122	tgataactagc	aacacaaaca	tctaagagac	ttaaaagctg	atggtaataac	ctaagtgttag	24780
6124	tgataaggca	aagtaatagc	ttgtaaaattt	tctatagatt	tccatttcc	cttttcacat	24840
6126	taaaaatcaa	aaccaatag	gttttcatga	ctttggcat	tcatttcc	tgtcattttc	24900
6128	ttgctggctc	ttaatgagtt	ggtgatcata	aatgttagatg	aagtttttgc	ccttgcataaca	24960
6130	gattccatttgc	gacagatttgc	tacagtgta	tatcttgaca	cattaaagac	aatcaagata	25020

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:29

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

6132 tgacataatt tgaaactatt ccagtgttt gtacagtatc acaactgaag agtgggctaa 25080
6134 gcttctaac tcttcatctg ctttcttga catgactctg gtaaggatca tgacttggtt 25140
6136 tctgttcctg gatttttt ggtttaaat atgtgaagtt ctgctctaag atatcaactgt 25200
6138 ttttaataac ccatgtgtt ttaagtggta ggaaaataaaa tgcagttaa aattggggac 25260
6140 aaatatctaa acctctctga gtctgtttc tcatactgca aatggtagag tgtgtttat 25320
6142 agttcattat gggtcaata ttttaatgt ttgttttt tctgttact aaaccaggaa 25380
6144 ctttgatatac ttggaaagga aagattttga aacattatt ttacaataaa gcaatttcag 25440
6146 atacctgatt gtttggaaaa cctaaaggtt ttattctcc gtagtaatataat taatgtcga 25500
6148 gaactgtctt tttaaaatac tgattctcat tggaaagaat gaattatggc gtataaggag 25560
6150 agttaataatt tctgtttctt aagtaaaaagc caatagtgcc ctccgtggc ccattaccta 25620
6152 tggaaacaatt tctcatattc gtcataaaaat atttcaactgt agggaaatataat gatttcattg 25680
6154 caactcaatt agtaatcatt atgccattac ttcatatcat ttttttccat tatttacata 25740
6156 aatttggattt taccatctgc ttcatattaca aaactaaaat gtttctgaa ctaaactcca 25800
6158 aaatctaaca gcaccagctc tgtttcaat cactattaaa aaatgtattt gaatagcact 25860
6160 ggcaactgac ataaaaccct ttggcctctg ctggggaaaa tacagacaaa ctgacttgg 25920
6162 gcccacaata tcaatattgt ttccaaccaa ctgctccctg acagtgactc agaccaccag 25980
6164 atactcaaca caactcccta aacttgctt aagcgttcca tcttagattt gaataaactg 26040
6166 tttaaaaatt taaaataaaa aaaaaaaagag aagagctcat ttaagtgttgc tctatcaat 26100
6168 gcgtagaagt tgtttcatat taatggttct gtaaataggt aacagcaagt atggtaaac 26160
6170 tactgactttt gaggaaagt ctcatgatca cttaaattat gaaaaccagg ggttttcatg 26220
6172 tttgacttac ttttggttcca cccacttccc ctctttccct agtagcagct cagactgac 26280
6174 ctacccttat atgagagatt ttctgcactt gataaagaag tccaaagctt taaaagttca 26340
6176 ttaacataga gacaggaagt gctttgttagt tcagtagatc aaagcacact tggctctgt 26400
6178 tactgttaacc cgaatattaa atatggata ttagcttctt ggaacaactg aagttgttat 26460
6180 tttttttctt ttttaggttgc ttggccttgc ggcagggtgc aatctgcct ctgcacccaa 26520
6182 tactgagggt gtgaaatctt cctcagtaat gcccagccct agtaccacat tagcgcggca 26580
6184 aggcagtctg gagtcaccgt cgtccggatc gggcagcatg ggcagtgtc gtgggctaaag 26640
6186 cggcagcagc agccctctct tcaataaaacc ctcagactt actacagatg ttataagctt 26700
6188 aagtcaactcg ttggccttca gcccagcatc ggttcactct ttcacatcag gtggctctgt 26760
6190 gtgggctgcc aatatgagca gttctctgc aggccagcatg gataactccga gctaccagtc 26820
6192 catgacttagc ctccacacga gctctgagtc cattgacctc cccctcagcc atcatggctc 26880
6194 cttgtcttggc ctgaccacag gcaactcacga ggtccagagc ctgctcatga gaacgggttag 26940
6196 tgtgagatct actctctcgt aaagggtgagc ttccctggag gcattgataa catctcccc 27000
6198 ctctccctg cactatgcct aaaaaaaaaa ccattaaattt cccttgattt cactgtgagt 27060
6200 gccccgggtgc aaaaagatgt aagactgtg aaaccgggccc ttcatattgc tctcattacc 27120
6202 aaatttacag aggaatagaa tcattaaagg taggtgagt ggataattttt gttatatgaa 27180
6204 atgcatacat ttataccatg taggcaatgt gaataaaaattt caaggaatgt atttagat 27240
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6208 tcctttagat gacttaagca ttggaaaga ccaatttgaa ttccattttt acttctatgt 27360
6210 agagcaatatt gttaaatttg ttccattttt acttctatgt aaaaatagca gatggattgc 27420
6212 tggaaatcc tagttggctt gttttttttt aaaaaaaaaa tcaattgtca gccatgaatc 27480
6214 attagagaaaa attatgtgt cagtgccatt ttcaatagac tgctttttttt gtaatcatat 27540
6216 tacaatgtgt ttctcatgtt ctttataat atatataaac tttttttttt tttttttttt 27600
6218 aggcatttct taccaataat gcttactgtg aagcatccct tttttttttt tttttttttt 27660
6220 attttctcttcaaaatgtatc ctctcttgcatttataactgtac tgactcttac caccaggaaa 27720
6222 atgtcttaaa accacttctt ttccctgtata aatgtcaatgc tattttgtctc ttgacataag 27780
6224 taaagcttta aacatggctc tggccacatg tggaaagaaaa tactggtcac gtaaaatacc 27840
6226 tggatataatct ttctcatgtt tccctgtttt tttttttttt tttttttttt 27900
6228 actctgtat tggatgtggc atttattttc tagaccttca gccttactcc cgaaatgata 27960

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:29

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

6230	ttttaaaca tcaattaaag cccttagcta gacactctc gcattacgcc agttccccct	28020
6232	taatgttagga tgtcccaatt tgaaattccc cattttctc tgacttigt aaatacaaaa	28080
6234	cccagagcaa aacattgctt cttccctct ttacttccta cttgcctaac aatgagacag	28140
6236	ggacagccgt gcaaatgggg cttccgatg ataaagtaat tttacacta actaaaatat	28200
6238	tgggtttcc tatgggtggc tgctaattac aaaatacatt ttccctccta aagaaaaaaa	28260
6240	ctgggccaag gcaaacagct cagtgatagc aaataaaaatg taaccatttc cctatggttt	28320
6242	tgctgttata tgctattata gacagcatac gtaaagagcca gtaagggttc attttccac	28380
6244	ctaaaatgtc ggggttcctg taaaatctt gattctagtt tcagcacttc taaggttaat	28440
6246	gggcatttc acatgtcatt tataaaactt ctaatgaatg aattatatta aaatagataa	28500
6248	acaacctata gtttaatga atgtatccta gattgtatgc tcataatgtaa ggattctaaa	28560
6250	tatcaacttata ataaccaaac caaacatagt gcaaataatgt tatcatttat taaccacaac	28620
6252	cacccatccac aaaactggc attttttaat tattaagata atctgcaaca agtggccat	28680
6254	ttagccatca gcctatttct tcagcattta gacattaatc ccagattcag aaataaagt	28740
6256	aagtaactat ttataaccaa gtaacattca aatcaaaaact agatgaaaga ttggtagtt	28800
6258	gcatacgat aaccaaaaatg cagtttaat atttactct aatctatatt ttaactgaag	28860
6260	tcaataaaaat tttcactatg gaaatacact agaaaatatg caatttctt ttcttttaa	28920
6262	gcagatttat ttattgtaca tgttcagttc ttgaaatagg ccaattttat ttatgtat	28980
6264	ttatgttatt tattgtttt gaaatggagc ctcactctgt cgctcaaggct ggagggcagt	29040
6266	ggtgcacatct cagctcatttgc cgtcctotgc taccggagtt caagcaattc tcatgcctca	29100
6268	gccacctgag tagctgggt tataggagcg gaccaccatg ctgggctaatt tttgttatt	29160
6270	ttttagaga tgacgttca ccatgttgc caggctggc tcgaactcct gacttcaagc	29220
6272	gatctaccct ccttggcctc ccaaagtggtt gggattacag gtgtgagccg tggcaccagc	29280
6274	ctgaaatagg ccaatttttta aatgggagt attcctatcata taaaatggcc aaataaagac	29340
6276	ttttctaaa ataaacttta aactaattttt ggataaaatat gttttgcctt tgagccctaa	29400
6278	taaaatgcataatgtaat taagctgtaa aaagtacatg ttaactacat agctatagtg	29460
6280	tataatattatataatgtaat gtgccttcca gtaaattact agattaaaat aaatttttaat	29520
6282	ataagacact gagtttttg tttcttgac aatagaactg caagcaatag caaattgctc	29580
6284	taatccattt acgtacattt aagaaagttt atgacctattt gaagagaaaa gtagatctag	29640
6286	tgggtgatac tggcttattt atggtaattt aattgtatcg tagaatgtca gaaatgtctaa	29700
6288	aaaaacccaaa gaactacacc agagagaaaa tggtaatgt taaattttaa ggcaagttaa	29760
6290	ttagcgatataatggataa tttatataag ttcatgattt acctgtttgt ctacaatttt	29820
6292	agatgatttt ttgatactca tattttaaatc ggtagctttt cctatagatt ttaatttttg	29880
6294	tttaatttcc tttcgatataa attaaataaa ataaataat acattttta acagttttct	29940
6296	cttctgcacgc tgctcttagt cattgggtgc cattgagcca taactagtct atattttttt	30000
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6300	ttgcaatttcc tgggtttgtc tttaaatgtc agatctggca acgctgcctt gacatttctg	30120
6302	cctagaaact attggctcta ggcagtcagt gtctgtctgc ttccagactgt tgactgaaat	30180
6304	ccccatttgcgttttccatgc ctttgcgttgc tatctggccc ttgctggcat atgagttgc aaccccttgg	30240
6306	gatttgcaga aattgtctat gttagaaaaat cattaatatc tagattcaaa catatttctt	30300
6308	aataaagctt taaatttataa tggtaactttt aatgtatattt attctaattt ttttcatataa	30360
6310	attgtcttc atcatataaa tatataattt ttatacaact ggtatgtttt ggcagaagaa	30420
6312	taccaacttt tcatatttctt tggcattta aactttaact tttatgtt gaaataaataa	30480
6314	atccataaaaat tgacttatgac ccacataaaat gccttagcac atgtggttca tattttggaga	30540
6316	tttctcatat ttgttcaata taattttattt tggatgtttt tccacagttac ttaagaaaac	30600
6318	ttctatagtc aacatataata ctgttaactgg cctctacaca gtataagcaa ttaccttaca	30660
6320	tggcttattac cgataaaatgg aaatgttataa aagccctttt gatgctttt atttcgtgc	30720
6322	taaataatgg agtacacataa gaagaaaaaca ttttagctttt ggtttgagtg atcaaatttt	30780
6324	aggtcagcc ttttacattt atgttataatc atccccattt tgcgtatcct gtttatataa	30840
6326	ttttatgtatcat ttgtatgtctt aaagggaaagaa agtataattt ctgcaattttt aattaatttt	30900

RAW SEQUENCING LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:29

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
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Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

6426	atctttgta	gaaaatagaa	acaatttagga	agaaaaaaaaat	atgttaattcc	atgactcaaa	33900
6428	gttaacttct	tttaacactg	ttaaagttaa	aactccttaa	aattcataca	agaatttctg	33960
6430	ttaagacaat	actctgaaca	tttcaaaata	gatacatga	aaaataaatt	accaacttag	34020
6432	tcattgggtt	actttgtatt	taacatcatt	tgtatgaaat	ataaaaatcat	ttgcataaaa	34080
6434	tttcattaaa	agcactctga	gtaacaaaat	aattaaagaa	aactaaacat	gccagatacc	34140
6436	attnaataga	ttcaatgact	ttaaaaatat	atttatttc	tataaagtca	catataaaagt	34200
6438	attntcatta	tttttatggt	aaatattttt	attttagtt	tatcagaaaa	acttgtacat	34260
6440	aaagatgagt	attgatacat	aatcttatta	gagccagaga	cgatcattcc	ttctagaaaa	34320
6442	acacatctct	gaatttagga	cggaggacaa	tgaacaaga	aatttcaett	tataatttac	34380
6444	cttgc当地	ctatcccaga	gcacatcaat	tccatcatga	aagtactctt	ttgacattat	34440
6446	ataaaaaatt	agtaatagaa	aacacacaat	ccaaaacctt	atatttcta	aacttcaagt	34500
6448	taatcatcaa	cttctcttag	attttgaag	acctgaaaat	aaacataatt	tcaaataaca	34560
6450	gaactcaaac	accatataca	tttgaatga	ggcacaacag	tcaatttga	gccttgattt	34620
6452	ttccagggtt	tagtgaata	atttcactg	cttctttagc	tttttgc当地	tctagtttgg	34680
6454	ggacttattt	gccttactgg	gcctaaacag	agtgtaatat	taaaataatgt	taataagcca	34740
6456	tactgagaat	aagataaatg	caggttcta	actccttagg	gacacaagtg	gggacaacac	34800
6458	attccatgaa	cacaggtgaa	tgaatgcccc	tagttctct	gagttggaca	atttcatgcg	34860
6460	atcatttttt	tctctgagge	caaagtctct	ggtttgatct	tcctagcagc	ttccagaaca	34920
6462	gaaagtgagt	ttactttgtc	tccatattct	ttttctccat	gtcgggaat	ccctgcttt	34980
6464	cctgatccca	ccacaaaaac	tcccctgagg	atgaagcctt	ggcttccag	gttccaggg	35040
6466	aaggcctcgat	tcctggctgg	aggttagttt	accacactcc	cagagggcta	aatcccataa	35100
6468	acatcatctt	ctgtctttgt	agatcataga	actttttatt	atcatccagg	aagatttctc	35160
6470	ttttgaaaca	aggctggaaa	aactttatgt	cagtccctgac	ctgctctta	atgactgcgt	35220
6472	agagggagat	gcccgactt	tccaaacttgg	gttgcagaga	ggacagatct	gcagccctc	35280
6474	ttgccc当地	aaacatcctg	gcacagccac	aatcacaact	ccatttctct	cccgatagct	35340
6476	ccttgc当地	gaaactcatt	gttacttct	ccagtgtttt	caggtctata	ttctccaggt	35400
6478	actccagcac	ctcttccag	ggcttggaca	aaaatacata	tgtgttggcc	agcatcagtg	35460
6480	ccaaggcagc	agcctccaag	ggctcctgca	cccatggacc	acatccacac	agagaagcac	35520
6482	cttgggtcct	caagtgcctc	ccttttcttc	ccttctccca	aacctgaagc	ccagacacta	35580
6484	aggggtcaaa	ccctcctggg	ccctgagggt	tccaaaggcc	tcattactt	ttcttttttt	35640
6486	cactggaaaa	aaaattctaa	tcatgcacct	acagaagatt	gacattttc	agtaagttgg	35700
6488	actttccagc	tttcagccag	gacaagactc	aaggctatgt	cttttctatt	gcaacccttc	35760
6490	ccactatatt	gagtagggct	tttagcaatt	gaaaacaatt	atttggtca	tgtttcata	35820
6492	taagctaatt	attnatata	aaacaccaag	ttttgtttc	ctaaccata	tagtgataag	35880
6494	agaatttacc	tataatgcca	aagaatgtat	agctttatt	tgcttaaga	tgcagttgat	35940
6496	tttttaaaaa	agcgaaaagc	ctaacactt	aacttcaaaa	aatgaatttta	aatgtttgt	36000
6498	gtaggtcata	ggaatatgaa	aaaattttat	acaacatcta	aaacacaccc	aaatcaccta	36060
6500	aagtgc当地	agcttgc当地	gtacttcatg	tctcctatca	atttttcat	taattgacgt	36120
6502	taatttgatt	agttgactcc	ttcttctatt	tttcctcacc	atttatttc	tgattaaatc	36180
6504	cacccattt	attcctttagg	aacaaaaaga	ctcaccactt	aactatgtct	gacattgggt	36240
6506	aagtgc当地	aacttaattt	tcttattctct	tgaatggata	cataatacct	aggttatatt	36300
6508	gtaaagaatg	acggatata	tgtatgtaaa	gatggagaag	tgtgtaaagac	ttgacagatt	36360
6510	ctgccaatc	atttatttca	ctggaaagca	tgtcttacac	gatcatagag	tagcattcat	36420
6512	cagatatgcc	tgagcttgt	ctacattta	tttagtagta	attcgcaaca	cagtaaccac	36480
6514	aggattttat	gtaaaagaca	ttcacagatt	gttffffgaa	aagattgtat	ttttgaagta	36540
6516	caaaaactatg	acattgttat	caaggactca	tttaccacaa	atatacaata	tttgc当地	36600
6518	gataagttt	tgctaaagatt	tgcataaaatt	aaagttaca	tggcaactga	agctaacatg	36660
6520	tccatggtca	caatgtgtt	aaaaatgaat	ggttctgtag	cacacttggg	aatgtatttt	36720
6522	attacatagt	tttcagagtt	aaaacacaat	taataaatga	aatgtgaatt	atactttac	36780

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:29

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

6524	tgacaacaaa	gctctctgta	gagcttaat	gttctaatga	attagaaaac	caactgatcaa	36840
6526	atacatccct	tacatttcat	tgctatagaa	accaagtctg	aaaggttaag	tttaccttgc	36900
6528	taggatgtgg	gtttcccccc	ttaatctatt	gtggtttata	tcagagatct	ctcagctgtg	36960
6530	tcagacaggc	catgacttaa	gtgacactgc	cctcttgatt	ctcttcatac	tttccaact	37020
6532	acaattctt	ctcctgggg	tgctcatctt	aacatagctg	tatcatttat	tgttagacaca	37080
6534	aggtcactt	tgagagtgaa	tgggactata	ttaataattt	ttccaggat	taggtgcaaa	37140
6536	ccctgggcaa	tgcaattcat	cctccatctc	ctccttatat	ttatgtgttt	accaagttgt	37200
6538	tttcctgt	gactttttt	tatcctaaac	ccttttcta	tgttctcatt	cacaacttta	37260
6540	attctaattct	ctcaaataat	catttcactt	tctgtctgag	accttttca	gctctaaaac	37320
6542	taaaatccca	tcagtgtgct	agaccatata	gcoacctgaa	atcaaagtct	tttcttaagt	37380
6544	tcttttcttc	tatttgtctt	ataatttcat	gtatcatctt	tctctctact	ctagcacacaa	37440
6546	atctgtgtaa	tcaatagtc	tacttggaaac	tgtgctcttc	atattgtaca	tttcaataag	37500
6548	acaggaacct	gtgattttat	cttcagaata	tctcctacat	ctgtctctca	tttcaggaga	37560
6550	cattgtccct	gctgaagctt	ttttaactat	agacaattgc	agcagat	aaactgatct	37620
6552	tactctgtcg	actcccttat	gtttcaacat	tttcacccat	tggaggtat	aaaagaagat	37680
6554	attcctgtcc	gtgtcaacat	aatctcatgt	acctctccag	atcttagaaa	cacgtatggc	37740
6556	ttcaaatcag	gcatttggag	atctttatgc	tgtatggttt	cagagtggaa	aaaatgattt	37800
6558	attcaaaaac	ataatattt	aagagttttt	attgtat	cagttcacct	gaacctctgt	37860
6560	tcattgggca	agaaaatgag	tactctaaa	atgcaataat	aaattaaagt	tactttat	37920
6562	ttaaatttta	aatatataat	tatataactt	ccttaaataat	gtcctcttgc	tgtcttttag	37980
6564	catcaccat	ttttgatttgc	accattatct	tttctgaata	atcagtaaga	tacaggatta	38040
6566	ttattaaatgt	tcaaaaatgt	cagtttcat	gttttcttta	ttctttctac	caattaaaat	38100
6568	gtgttaat	ataaaaatttt	tagaaatttt	actataaaaa	atcacaacat	atattagaaa	38160
6570	attaagatca	ctacaatatg	tcatatttag	tagactactg	tgagctactg	ccacagtaaa	38220
6572	ctatggttcg	tgtgtcg	ccagcatgct	agccctagta	gaaaccattc	ccattcaaga	38280
6574	aagactaaca	aagtatagct	tacataaattc	aaaaagtctt	tggatgaaac	ttcatttggg	38340
6576	aaaataaccc	aatcgctacc	cttcaatttt	ttatgaatga	aaaaatggaa	gaataaaaggc	38400
6578	ctctaagatc	cattcaaagc	caggagacac	acaagaattt	ctaaatagaa	gagaaacaga	38460
6580	agaggtcata	gttcttgc	gccatctcat	aacctggta	gactcattgt	catgcctcca	38520
6582	tgcatgataa	caatcgctca	gattcatttt	tcatcttgc	acaagggtt	catgcaggaa	38580
6584	cattaaatgtc	aacctgtcac	ttctaatatc	catctaataat	tctctaaatt	cgatggatcc	38640
6586	ttttgcata	gggtattttt	aaacaccctt	gcataggaac	agtttctat	cttttgcact	38700
6588	caaataatcc	tctacatttgc	atcccttccc	atcttcgtgt	tcaacattca	atcttctca	38760
6590	aatgaactcc	tgtcttctat	tctttcgaa	gcatagaatc	tcacggtc	aagagaccac	38820
6592	atctggttca	acccttcatac	tcttattgtaa	aattttatga	catctctagc	ttcttcttta	38880
6594	aacccaccaa	tgacagaaac	tactaaaatc	tagaaataac	acctttgaaa	ttctttcttt	38940
6596	aagagatcaa	ataaaaatttt	cctgaatctt	cacctattgt	tccttagttat	atatatccag	39000
6598	attctacaaa	ataagtcaaa	gttagattgc	atatgacagc	tcttcataatt	taaaacaata	39060
6600	taataaactc	actagttaat	gtctagctgt	agatgcaaaa	gtagagatgt	acttgggg	39120
6602	atttaaaaac	ccagtcacgc	cagacacatt	ggatcatgc	tgtatatacca	gcagcactca	39180
6604	ggaggctggg	gcaagaggat	cccttgc	ggagttacag	gctacagtga	gctatgatcg	39240
6606	tggcactgca	tactccagcc	tggaaagacag	agttagaccc	tgtctcacaa	taatagtatt	39300
6608	taataatatac	ataaaaaccc	agtccacatt	tatataaggat	cctgtttcc	tcaagttact	39360
6610	acaaataaaat	atataatctt	aataaaaggt	tagtggctt	gccaagatag	tggcttggct	39420
6612	atgcaaatgc	aatattaagac	aaagttggta	gcccttctt	tcctaataca	ttgcccata	39480
6614	tgtttcttctt	ctatggaa	attcttgc	gtcttgc	ttcgaatgg	tcttata	39540
6616	cttttatctt	tccat	ttttttt	agtcataaaa	aaactgaagg	gtagtgttgc	39600
6618	ccaaagcaga	tggaaagcaa	aactaccact	agaagctt	taccaatttgc	ttgtccattc	39660
6620	aaaaaattat	cttgc	ttttttgc	ttttttttgc	tatagtttttgc	tttgcattat	39720

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:29

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

6622	tttacatatt aactttctc	cttcttcaga	catctgccct	actggctact	cttggaaatca	39780
6624	gagactgtgt	catattttc	cttcttattca	actacaacat	ctaaaagcag	39840
6626	gttattaact	taattgaaca	ctcttaaata	gttaggtgt	atttccatg	39900
6628	caaaagggtt	tgtaaatgca	aactattccc	ttttaaatct	atcctaattcc	39960
6630	ttcatcttga	tagagctaag	tattatgtat	tgaattgt	gaagtacact	40020
6632	atctctgca	tcatttagt	aagaattata	caaagccaaa	aagcaaataa	40080
6634	taaccctata	gatacgtata	ctaaaatgtat	gcacttgca	atttgtttaa	40140
6636	atttaaacaa	gagtaaattc	atactgtgaa	ccaagaatag	ggtgacttac	40200
6638	ccaccttaaa	cataaacatt	ttaagtcttc	aatgtcctac	agtgtaccta	40260
6640	tcactaatca	gaccgaaatg	gtactaatgg	tcactgcagg	ctgaaggaat	40320
6642	gataggcaga	tcctctccct	ctccctttt	tactttttc	gccttccat	40380
6644	tttttccaa	tagattgtc	actttggaga	ttcatatttt	tttcctttt	40440
6646	taaatatgt	attcttagtc	ctatgctcc	ttttaactcca	atcaataact	40500
6648	gaggggtgtt	ctgtgtgtt	attcggtta	taccaggatt	atcaagcaca	40560
6650	aatgtgagat	acttctctcc	ggttacctct	gggtttactt	ttcctgtttt	40620
6652	gagagccagt	acttgttata	agaagaagtt	tagtgctgt	gtcacagaaa	40680
6654	aaatttgaa	gtgtatgtcag	aacaactcta	agccactgac	ggattccaca	40740
6656	aataactcgtt	agttcccttt	atatcttaag	aggctctgc	ctgcttctc	40800
6658	aacaaacttg	ctttcttaa	atatgagcat	ttagaataatc	tttctcaatt	40860
6660	gcttttattc	caaatttcac	aactatattt	tttccaatg	tagttgtaca	40920
6662	caaatcttc	cttaaattga	tgactaccag	gtgaggactc	tttggcaata	40980
6664	aaataaattt	ttattaaaaaa	ttacagactt	aagataacttc	tttggaaata	41040
6666	gtgactttt	accatctcat	catgatatgc	tcatcttaaa	cagagtagaa	41100
6668	tataattaac	tttatggtgg	gctgcagata	ccatgtatgt	tacattgtgt	41160
6670	aaatgtttat	tatacactat	ttccttataa	tctaactttt	ataataatga	41220
6672	catgaactta	catcaattaa	gagcttgaag	tgactgagag	tatttgctg	41280
6674	aagcccttct	tggaaattt	agatgtttt	tattttactt	tcttttgat	41340
6676	ccattaaagt	gattactatt	tttaaagaga	aaaccgaaaa	ctctagaag	41400
6678	cttcataaca	ggtagcagaa	aacaccatgt	tattacattt	ctagcaagag	41460
6680	gacttgggg	ttttgtgtac	tgttgctta	gaaatttgatg	taaggctcc	41520
6682	ccagagaaaa	agagggacgc	aatggatct	gttattgaac	atttcagagg	41580
6684	ccttaaatag	ggactca	tacattcatg	tttcataag	tattggatc	41640
6686	tttctatcaa	cctgctattt	tcatcttca	agcttaagag	taataggctc	41700
6688	gttttctagt	gagcccaaca	aatttgctc	aatttaacct	tcccggcccc	41760
6690	gctcaaacag	catcccagcc	caagactt	ccttcgatct	ctatgtac	41820
6692	gtggggagtgc	cacttctctg	gagggaaagac	ctcgccat	cagtattcg	41880
6694	gagacagcat	ggaagaaggt	aagcggttag	ggggattaaa	gatgaagtca	41940
6696	accctgagag	ggaaccatc	gtgtca	catcacaaag	attcctgaag	42000
6698	actagtgtaa	ttatcattt	gaaaactaga	agtttgcaga	agttttattc	42060
6700	tctatttctt	tatgtattt	gaaatatgcc	agaatttggt	tatattaata	42120
6702	gaagagttt	gactaaatct	actttccaa	tacagaaata	tacatataaa	42180
6704	agggtcatca	aatatcagag	caaatgtttt	gttgcacatt	ttggtaaag	42240
6706	acacacaaac	cagaaacatt	atttatgaa	aataccat	gttgcact	42300
6708	ggaattccct	ctgggtctaa	tttttattt	tatcatttt	gaattcatat	42360
6710	ttttgcttt	ataagtcact	atttctcat	ccaatggcaa	taaaattgtc	42420
6712	ataaaatatct	ttatagttat	atagttctat	gtaaatactc	caaataaatac	42480
6714	cctcaggaag	ctgagttgt	gctcaaatat	atatattttt	gtaaactgt	42540
6716	tgtcaattt	aacaataatt	tgagagactt	ttctcttga	ttaatgaat	42600
6718	tccataaaaga	aaacttacag	catacatatt	ataaaagcat	tcagctaagg	42660

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914, 549

DATE: 09/27/2001
TIME: 12:13:29

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

6720	actagacata caaattcaaa ctgatttagaa tgaaattatt aaccctaata attatgtta	42720
6722	aaagaaaagt ctccaaatct tgagacatac cagagttaa gtcttcagcc atccatttac	42780
6724	ttgtggata aacttaggc agtttcttaa ccttcttac cctaagttct gcacatgtaa	42840
6726	cttcttaggt ttgtcacaag gatgaaatat gagaacaaag aataattctg ttccatgatc	42900
6728	ttttcccttc ctaccttctt atttaaagta tcttctgact gaggggttag gcagcaatga	42960
6730	aaattgactc atgttttca ggtcaccact atggattcaa tatactggca ttaaatcagt	43020
6732	agagaatagt tgtcaattgc ttttgcata ttaaccaa cactcagttc actgtgacag	43080
6734	acagtgaatt atatccaatg actccactga tttttccat gtagatagac aaaatataac	43140
6736	tactctcaa tgtaaggacc ctgcttctg aaatggttct gttgctct tcacagatag	43200
6738	gcttcttata atactttaa aataatttc taagcataca gatggcttc tagagtgtgg	43260
6740	cattgacaaa taaagtgtt tttatatact gggaaattct ggccttcaat gtatcaggat	43320
6742	taaataatct gaatttctga aagcttagct aagtgccaa gatggcttt ttgtgctcac	43380
6744	gcattgaata ctgaactatt ctatgttctt aatggcgatc tagattcaag actattgaa	43440
6746	ctagattgaa gggactttat tgatatctca cctaatgctc acactgacag atgaagagac	43500
6748	tgagccacat gttctaaaggat cataaacaga aagaatgaga atgagatggt ctaattaatt	43560
6750	gtccaccctt cctatggta atcaggtaa cactttagt tacgaggta ttattagaga	43620
6752	tagaaagaat ttttttttaa ataattgact caaataccaa cattttgcac attacataga	43680
6754	gtaatagctt tgcccaagtt agaaaactgg gggttcttct ttattccct tttgaccaca	43740
6756	tctatatact cagtttaaa aaggttcttc ctgtatcc tcaattccat cccatgttt	43800
6758	tcatctacaa gcctagtgca gctattccag ccgtctcctg atcaggctt aagcacctcc	43860
6760	catatgtcct tggtagtaccc accatattga tctcagtagc aatcacagta ctctattgt	43920
6762	aatatctttt aaattattat ctctctttt agcttttggg attttatctt atttattttt	43980
6764	gtagttccag gatctagcaa cagttgtca catcgatcat actcaactaa tgggttta	44040
6766	atgcacaatg agcagaaaata aacatactac tccatagtaa aaagaggatg aactttctg	44100
6768	caaataattaa tcagcaccat tttatccacc ttttgggtt agtacattgg aagtatagga	44160
6770	gtataaagca gaatgtccaa tggttacagt gatatttga aatagataaa agccagtgcg	44220
6772	acatttccat tctcaatttc tctgagacat cacccgtaaa aaaaaaagta ttttcttctt	44280
6774	cctaaaattt gtaaaggaac agtaattcca catttataag agtatgatca acgcatcaca	44340
6776	gataatgtt gtaataacaca ttagataaaa gtcttattt tcctgaaatt atatggagaa	44400
6778	aaaaatctga aagtggacct ttgttgata caaatgaaat aaataaggta catacatttt	44460
6780	ttaagggtcg aaagttttagt gcaactttag tttgggttcc catgctattc tatttattat	44520
6782	atgggaattt actgttagctt tcaacatgtc cggaaacaggc tggtagggct catgcttgc	44580
6784	ggctctgtc taataacttg gcaactgagg tacttttaggg agtatggatg gggcttcc	44640
6786	atgtctcaac gtctctgactg cccaaaaatt atagcaggct ggtctcaga atcttataagt	44700
6788	tagttttat tacttaattt ccctaaccac ccgttcttta cttttctgt aaaggctgga	44760
6790	atttttgagt agaccttattt gtttaactc tattttctg tttgtttctt ccagttcatg	44820
6792	gctcttcattt atcaactgggt tccagcactt cttctttta ctctacagta agtaatggct	44880
6794	gttaagaaaa agttgtgct ttgtccatgc acacagatga tgaaatagat cattttactg	44940
6796	tgaacagatc acattcatct atgacttgc caggagttgt gtagccaaat aacggcatac	45000
6798	tctaagctgc ccaataccca ataaaatgtcc aggtgctcca cctgcattc ttgggtcact	45060
6800	tacatgtgtc ttcaacttggc ttttggcactc tcatcataat caatgagttt atgttagaatt	45120
6802	cgatttcata aaacctactg aggtatgact tggagttctt gaaaccatgt atgttagtctg	45180
6804	ctataactatc attttagtaa tgacgagttg tccatgtttt gttcttgc gctgtactgt	45240
6806	taattttctt atagtattttt cttcttattt tttttttt agtttattgt tgagaggatt	45300
6808	atcgaagggt aaaagcagta agggtaaagg gtaaaagcat aaaagaacca gagatgtttt	45360
6810	tttttaata tacttttga aagagtgtga ttttttaac tttttttt atttttatttt	45420
6812	atttattttt ttatattttt ttgagttcgag gtcttgcctt gtcaccagg ctggagttaca	45480
6814	atgacacaat catagctcac tgcaaccttg aactcctgg ctcaagttat cttctgcct	45540
6816	cagcctgtca agcagctagg actacaggca cgcaccacca tgccagctt atttttaat	45600

RAW SEQUENCING LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
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Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

RAW SEQUENCING LISTING
PATENT APPLICATION: US/09/914,549

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Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

6916	ggaagatcat	gtgactattt	aaatacttca	agtccatttta	ttcttttatta	gccttgcct	48600
6918	gttaggcatt	taaatttttgc	atccctgca	tagatgtttt	ttgattaact	gtatattaaa	48660
6920	aactatattt	aacctgtttt	gaatttgaat	tctaaattgt	atttttcat	gagagcaagt	48720
6922	gtcatttttgc	attcattgtg	gattgtttaa	catgttgcct	aacaaatagc	taatactaacc	48780
6924	gtcataactt	ttaaatttgc	aaatttgaat	ggataaatgg	ccacttatttgc	gctttagaa	48840
6926	taaataaaaa	catttttattt	cagtcaagt	tttcataattt	tttattcatct	ccaggacatt	48900
6928	gggcttgctc	aaaaccatttgc	ttaaaaaaaaaa	aatggcaaat	aatccagttc	catcatgata	48960
6930	tcattaatcc	cacacctaag	ctactgaaaaa	aaatataattt	atattctggc	tcatttgctt	49020
6932	attttatgg	taacacccac	ctggattttaa	taaccacaga	gtacgaaaga	aggcaaaaggt	49080
6934	taaagcaaat	aatagtttgc	aaaaatttgg	agtaaaaaaaaa	gtcatgctat	acggtatgt	49140
6936	tataatagat	atttaatgt	tatgcttgc	actagtataat	gtaacaggac	tattatagat	49200
6938	taacaaaaat	gccccgtgat	tatttcttgc	ttatttttta	aaagaataaa	ttattatattt	49260
6940	aaaatacatg	aattatttttgc	tgatttcttgc	atctttacca	gctttctata	attctaggaa	49320
6942	gcctagaagc	agaattgggc	aggataaaact	ggccaaaaat	gtaaaaagta	ggccgggcac	49380
6944	ggtgggctac	agtggatgcgt	gaatgcgcag	tgcaccttgc	tgatagatca	agatcctgtc	49440
6946	tcaaaaaaaaaa	aaaaaaaaaa	aaaagaaaaa	aagaaagaaa	aacaacaaca	aaaacaaaaaag	49500
6948	caaagtacta	ggggaaaacta	atagacatag	ttacatagtt	aattgtgc	tatgttttaa	49560
6950	ggcaatgaaa	cttttatctt	aatattcattt	gcttactttt	tattcaaaaa	ccaaactgt	49620
6952	tataaaacct	taaaatttattt	aggatctaaa	aaataaaatc	tttcctttaaa	aatctaaaat	49680
6954	tgagatgtaa	attattcaag	agtgccttttgc	aaaacagttt	tcttataaag	gcttatttaga	49740
6956	ttcttaccact	tagccacttttgc	attattttagc	cactatatttgc	ctaagtttac	atatttttaa	49800
6958	aggtgtgaa	aatataggga	agacaaagct	caggtaaaaa	gagtttctgg	caaataaaaat	49860
6960	atattcctgat	ggtagacta	ctttgccttgc	tgttttcttgc	aagaaaaagca	gtaaaaaaaaa	49920
6962	gttcaggtag	ttttgtgtca	attaatcttag	aactataccat	aaagtagaca	tagaaaaacga	49980
6964	gagattttttgc	ttcagcttgc	gatctgccttgc	tggcaataag	cagacttgc	ctattcaaca	50040
6966	acattatgca	ttcttcaact	tttcccgat	taaggagct	tcccaatgc	aatggtgac	50100
6968	ataactcatt	ttctggcatttgc	ttgcagccca	gcatgaagaa	gaaaaacaga	gtcttggatgt	50160
6970	ttcttggaaat	caagtcaaaa	acaccctgca	aattcctatgc	gcagtccctcc	tttccataa	50220
6972	ctgcatagcc	aaaaatgtttgc	gccagacact	tttattcactgc	ggtgtttc	tgttttcatt	50280
6974	gtttaagcgt	tttgcgtact	tgtgataatttgc	aaaatttatttgc	ataatcatta	aagaaagaaa	50340
6976	aagttagaaat	aaataatgtt	aattatctgt	ggttacgt	agaggtctgt	atgttacc	50400
6978	agctttatttgc	gacattgtttgc	gtgatcgt	aatcacagaa	taaaatttgc	acatctaaac	50460
6980	cttggctaga	ggtctctata	attttatggc	gtctgttcc	tacaatctgt	atgaaagata	50520
6982	cttcaatatttgc	ttaagtttac	atgcacccat	cttttttgc	gtataattttgc	ataactatttgc	50580
6984	ggtttatgttgc	gtcttatgttgc	tacatcttag	agtcttttgc	ttctgtcttgc	tgctttaaagg	50640
6986	aatattatggc	atcaaataatgc	ctatattttgc	agaataaccttgc	atggtttata	tattaagaaa	50700
6988	catttatata	aaattctaaa	gtaaacttgc	tgtactatttgc	caatttgcata	acttaatgt	50760
6990	tttcatttgc	ttcttcttgc	agtagataat	aaaaagtaca	tcatgatttgc	tgtatttgc	50820
6992	tatacttgc	gaattaatttgc	aaaatagtttgc	ttatgttgc	agtcttttgc	tttatttgc	50880
6994	tacaggctgc	agaaaaggct	cattcagagg	taaaaaaaaaa	tatgcaatata	ttaatattttgc	50940
6996	tctattttgc	tttgcatttgc	tgtgaaatttgc	agtcttgc	ccactagagg	gctctgtgt	51000
6998	acaatagcag	aactccacag	gactgctgaa	gtaaggcgc	taattgataa	atggctttgc	51060
7000	atattgcctc	ttaaaaaataa	aatgaaagga	agtttgcata	gcaagctgtc	ctttcacatt	51120
7002	ctagatttgc	tcttagcttgc	acacctaata	agtttgcata	aatagtaagc	actcatttgc	51180
7004	tcatttgcata	atgaaggttgc	atggtcttgc	tattttatttgc	cagtcttttgc	cccaactccct	51240
7006	gtaagaccat	ctacacagga	taatgggttgc	aacttgggc	ccaagcttgc	acaacacagg	51300
7008	atacttagcat	ctcagactat	ctgttttgc	tcattatcttgc	gttgccttgc	actgcccattt	51360
7010	tatgtgttgc	gtgtcacca	ttgttctata	cacatatttgc	acaatacat	atttgggttgc	51420
7012	actcgtgagc	aaatcaaact	gcattcagga	aagaatacttgc	ttttaatttgc	ccttggtaaa	51480

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:29

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

7014	acatttgc	tggtaaaaga	gaggcaggagg	actttaatta	tgactttatt	caaggtgagg	51540
7016	taatggctgt	ttgattgggt	tacactgagg	caatcagaca	acagagaaaa	aaaatgcctt	51600
7018	aacaacagct	tttgc当地	tattccttc	cttgc当地	ttatttatt	agcctttaaa	51660
7020	aataaaat	gtgtatgtt	taaaaatatt	tgaaaattat	tgattaaacc	aatttgc当地	51720
7022	tataatctct	gaaccaaaga	gtggatatga	ttttaaaaaa	tcaaagtgg	tttatttaca	51780
7024	tcacatggac	atgacaaagc	ttcttaacact	gatcatagta	tagctactga	agcatcgaaa	51840
7026	tgctacatct	atttgc当地	gttagtagtt	ttcaactccc	cttttatcat	tgatgctgta	51900
7028	tc当地gagtt	tggtaaaa	aaacaattt	aatcaactt	cagttcctg	gattatattt	51960
7030	taaagatact	ggaatcatgt	aatagagact	atthaattt	agaaaatgctc	tttgagttt	52020
7032	gattcattt	tgaataaaaat	agacgctgta	ttttctgaaa	tcattcatag	tcattatctt	52080
7034	ataaaatgtaa	agcaaatgtt	attttagact	gggggtgtatc	tgttccggaa	aaaaaaaaaa	52140
7036	acaggaacga	agtagaaatca	cattggta	aattatataa	gtgtctactg	tttccagctt	52200
7038	agagttctct	actttgttag	agtgtttgag	ttgaccacca	tttatttca	acaaaatcta	52260
7040	atgcccgggg	caaaaactag	acagttataa	aactatgtca	agaattctct	ttcaaaactga	52320
7042	gacagcattt	caaaaatgttca	actacaacta	tagataagat	ttgttttga	agaaatgaga	52380
7044	agcatcaaaa	gtagaatgtt	taacatccaa	gtaactgaaa	tcccttgaga	ctagatataat	52440
7046	acttatagaa	ccttagtgc当地	gattgttata	aatgttctat	ccttattatgt	cacaacatga	52500
7048	gacttgc当地	acaaactgca	gaaagtgc当地	gaattaaaac	ttttaacatg	atataatata	52560
7050	tccttaccc	tttgc当地	agttttattt	gaggtgtgaa	ttaactaaaa	agaaagatac	52620
7052	cttagaaat	acattatatt	ggtttatctt	attagttgc当地	cctatcattt	gtttttccc	52680
7054	ctgattttta	agatgtggat	aagctataaa	gcatctctg	gctaataata	actcactaaa	52740
7056	taaaggctt	gataatacag	atttgggaag	gcttctctg	agtcttgc当地	actccagcc	52800
7058	ataacaat	aaatgtgaa	tgattaaatg	ttgaattaag	cccaagttt	agtgtattgc当地	52860
7060	ggatattc	tagcctt	gaagtttca	aactatgaga	aattaaaatg	tacagaggaa	52920
7062	aaaaaaac	cttcttct	aaaaaagaac	atggagtatc	tttactaaa	aaagaacaag	52980
7064	aaaaatatgt	gtgtatatac	agttttata	aagaaaat	tttcttacag	tttatttacc	53040
7066	acagttt	tagaggaga	agaatcaata	cagaggtaa	actgcttgc当地	agtcttgc当地	53100
7068	catttgaggg	atggcaat	gagcaagt	gcgtactt	atttgc当地	taggtttga	53160
7070	cacataacac	tttgc当地	aatgacattt	gcttgc当地	gtggagtc当地	tgttcatatc	53220
7072	ctttat	aggagg	gctgataca	tggggtt	atgagctaaa	tacagcattt	53280
7074	gcttgc当地	tttgc当地	gggtttaag	taaaaatctt	cttgc当地	ccattgattt	53340
7076	tttaat	tttgc当地	attcagcaaa	tccataaaact	gccc当地	atggat	53400
7078	agttgc当地	ctcacatct	agcttgc当地	aatgttact	cacttca	ttaaaaatata	53460
7080	ttacaacaa	ttttataga	ggaaaatgaa	atcattttag	taacaaactt	acaaaatttt	53520
7082	agtgcctgat	acagactt	attaccaact	agcaggact	ataaaaatg	aacattttt	53580
7084	gcctactc	taataaaatg	taaatcaaa	ctgtatgag	gcagcaat	atggaaaatg	53640
7086	gcttgc当地	tctaaataaga	ttggaaacaa	tagtacagc	catatgg	tttcttct	53700
7088	ttgttgc当地	ttttat	tcctcttgc当地	taagattccc	tgacaatgt	agaggggtt	53760
7090	ttatgtt	acttggaa	ataaaaat	cctgtgc当地	gcctc当地	tctcaatgt	53820
7092	ttgaacaa	tgtt	aggcat	ccagttatt	ctaaaatatg	aaatttagt	53880
7094	tagtt	tagt	gcactgtg	ttagatatg	tttgc当地	aaaccttgc当地	53940
7096	tagcaat	aaagg	gtaca	ctttactt	caccagagc	gccaggat	54000
7098	tgacaat	gaccgt	taat	tttact	gaat	atcttccact	54060
7100	gca	actc	ca	atgataa	agg	agaaatgt	54120
7102	agcaat	gtt	taaga	acag	cagt	gaggg	54180
7104	tttac	c当地	tcact	ca	gttct	ctgct	54240
7106	tgtgc当地	cacccct	actgct	c当地	tact	gatgtt	54300
7108	atgat	atgt	aagat	gagc	agg	gcagac	54360
7110	tttaat	tttgc当地	atataaattt	taag	atgt	gt	54420

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:29

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

7112	ttcacaatgt	attcatttta	gcactgtatt	tgaattgatt	ttatttctg	aaatttggga	54480
7114	gaattaattt	tggattttt	ctatttattt	ttaatagatg	gtgttaggag	attcctgaaa	54540
7116	ataatagcag	tttttagata	attgttaag	caatatgaga	aaataagggt	attatattaac	54600
7118	cttgggtgt	ttttaaagag	atagtcaga	ggcaaccgt	aattttataa	tataggctac	54660
7120	atgtatagaa	gtatgaaata	ttgttgc	ggttcctgaa	tttgcaccc	gaggaagttag	54720
7122	aataatgtaa	atgtcagaac	ctccgtgg	gtgttatct	gcaataagaa	aggctcaatg	54780
7124	gcaaacctt	tttatttagat	tgtcagata	cttgcagatg	tcttgaatga	ttactcaggg	54840
7126	tttcatttta	tttttaatgt	cccttgg	agctcatcat	ataattcaga	tatttggaaata	54900
7128	ataaaatggct	gctagacata	gttggaaatg	ggctgtatact	ttccatttga	aatgtatga	54960
7130	tgcttattgt	cttcaaaaaga	aaaaactaaa	atggtatttc	acatttttt	gtttttgttt	55020
7132	ttgtttttt	ttctctgaga	atctcattct	tactcatgat	tatttggttt	tttgcaccc	55080
7134	tttcaacatt	tttctattat	atgctaattgt	gtatatac	ttaatacaca	cgtgcaaaag	55140
7136	cttccacaca	cacacacaca	cacacacaca	cacacataca	cacacataca	cacacatc	55200
7138	gaaccaaatt	ctaacatagg	ggaataatct	tccgtgt	ctctgtgct	ctgtttgaaa	55260
7140	atggagatata	aattttagaa	aggttcctgc	agttggctac	ccacctcg	tgtctcaatt	55320
7142	atgcttgca	cactatttc	actgatgtgt	tttcatgact	ttagggcatg	aattctcagc	55380
7144	tgggtgttaa	tatgaccaac	aaagggtgaa	aacaggttct	tgcattttt	taagtactct	55440
7146	ttttatgtga	aaagcacaga	tatgcagata	atacataact	gaacatccag	catatctgt	55500
7148	gttttaaaat	atcacgaaga	agagcacaat	tagggaaaag	aaaacatcta	tagtggttc	55560
7150	ctagggaaac	aatcattttaa	aaaaaaataa	aaataaggaa	cacagactag	aagcagcagt	55620
7152	gccaaataga	taattcatgc	tagtcttgc	gttaattttaa	aaagtgttag	tcttggagac	55680
7154	aaacgccaa	attgctctag	gttccactca	gctgtatgt	ttatcattag	tattaactt	55740
7156	tgcacgctga	tgggagactg	atataatatcc	tgttttatgt	tcctttaaac	aatttataat	55800
7158	gtatattttaa	aacccatc	aatcacatta	gatccacaca	aaaacctgt	catagcagct	55860
7160	ttatttttta	atagccaaag	aaaggaaaca	accaaaaata	tcccttaata	ggccagttaa	55920
7162	taaacaattt	ctgatacata	tatcatgg	actactactc	agcaatataa	agaaatgact	55980
7164	attgatacgt	gcatcaactt	gggtggatcc	caggggtatt	atgctgagtg	aaaaaagaca	56040
7166	gttatagaag	gtcaaatttt	gtataattcc	atttatataa	cattccagaa	atggcaaaat	56100
7168	taaagaaca	gagaacagat	tagtgattgc	taagggctaa	ggatgaagga	gagagagagg	56160
7170	tagtgtact	ataggaagag	ggagatctt	agttttgtat	tttgaatgag	atggccatca	56220
7172	catgaatcca	catatgtcaa	tctttaatg	taaatcaata	ttgttattc	ggctttgata	56280
7174	tataatataa	ttttataaga	tatataatca	ttgggggaaa	ctggatgaaag	gataacaagg	56340
7176	acccctgt	actatcttgc	caacttcttgc	tgtatataat	tataaaatata	ataatgtatt	56400
7178	aaaatgtata	aaataatatt	ttaagtatca	gatactgatc	tttactcgt	atatgaagt	56460
7180	ttctatcata	acgtaacatg	ctttccctt	atttgcgtt	tttttagttt	aaactaaaat	56520
7182	ataaaatcacc	taaagatcta	cgacagttct	tttgcaccc	aatcttgc	ttaatttccc	56580
7184	aggagttca	accttaatcc	tctcttgc	gttctttat	ttggtagtga	tagggactat	56640
7186	caaagcttct	taccatcaaa	tacatttact	gactaaaaat	agaaaaataa	tttacattgt	56700
7188	aaaaatgtac	aaatttgaatg	acagtcaaaa	ggtacaggta	atgaagatata	gcattaacat	56760
7190	ctacttttaa	aaaaaaagttt	attttttatc	tcttttagac	taatgcagta	tctggaaatt	56820
7192	tatataaata	gatatgtata	taaatgacta	ttaacaattt	ttaatgtc	tatattttta	56880
7194	aacattttaa	taatatttgc	ataactatgg	gggtaaaaatt	ttgtatataat	ctgaacattt	56940
7196	ttgttcttaa	ggaaataatc	atttttacat	atccaggaaat	ttgaattact	ctcaagtac	57000
7198	ctattaatta	caagtcat	tgaactcatt	cattttctt	gtgttgctt	tataatgtca	57060
7200	tttttagattt	catgcattat	aatcagccat	caaataattt	agttataact	tgatttttcc	57120
7202	tcagttgtaa	gaagtgtgt	gtttaaat	cattcagaat	gtttcatttc	atctgaat	57180
7204	atatctgtta	atgtatgtaa	tatacacata	tttttaacat	gcatgtactt	aaattgatta	57240
7206	tagggacttg	gtaaaattac	ttatattatag	gatattttaa	atataatcaa	ggatttttta	57300
7208	aatctacagt	tcccat	aagtaaaatgt	aagtctttgt	ttacttagttt	gttcacatgt	57360

RAW SEQUENTIAL LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:29

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

7210 caagtaaact ttctacccctt tggtaaatgg tgagtgcagc ccccacagtg agaaattgtt 57420
7212 atattagaac tctaatacgat ataatttata gggatgaatt tcaatgagg tggttctaag 57480
7214 aaataatctg ttggttttaa caacatttt aagtatcaga tattcatctt tactcgtat 57540
7216 gtgacatgtt ctctcatagc ttacgtgctt ttccttatt tgggggtgtt ttatattat 57600
7218 aattggtata tcgcatattt aaacttggca taattacatt tatatggact ctaaacaata 57660
7220 acttgttattt taatttttaa atttggaaatg catctatgtc tctgttaaaa tgcatctt 57720
7222 tcccttgc caaatgggtt atggtaatgc aagagagtct ctagttagct cacctctat 57780
7224 ttgactggca gagtaaagcc cttgttcagt agaatgtgt ttaaggcctc cctcccttt 57840
7226 gtaaagggtt tctgaacaga gctgcataaa accacaggta aagtgttaag ctgattctac 57900
7228 tagcatgtcc ttagaaagga gacgggttat attggcaggt cctattgcct ggcgttctg 57960
7230 atcaataact caccacaaa cagaaaacag aagccgcaca aggaaaggca gaactaaata 58020
7232 aatggtaata gcaacaata agccagatag cctctggcct ctcgcccaca ccttaaggca 58080
7234 gctgggtcag gtgggatgct tttgtttgtc tttaacgta ttttcttac aaatctcagc 58140
7236 cattacataa ttggaaatg gacacaaggc tagtattac taacatttt aaagacatta 58200
7238 ctgaatgaat gtgtaaagaaa acaaaaaggc cttttgcct tttagcagat aagtctttt 58260
7240 accaaaaatc tcttgggtat tttagagattg tggttctactt ctttgctt ttaatatttt 58320
7242 cataaaaattt gctagttact cttgttttgc ttgatctctt ctaagagaaa acaattgggt 58380
7244 catattatata atgagaaaca cttcagtttgc tggacaattt tttgttaggg aaaagaaaatg 58440
7246 tggaaacttta tggcagaa tcattcttgc ttcaactaac tactaattt aaaacataaa 58500
7248 gctttaataa tatataaagt ttatatgggt aaatataat tacatataat atatgtttt 58560
7250 tatttataca taatatacta tatattata catgatatac taaatatttt cccatataaa 58620
7252 taataaaatg ctctaggcat atatgtgtgt tggtgtatata atgtatataat atatatacc 58680
7254 tcataacata catatataaa atactatatt atatatactc taggtatatac tataatggccta 58740
7256 tatatgcacc tatataattt tatattacta tataatataat agtataattt actatata 58800
7258 ctactatata ttactatata atatataat atatgtgtgt atatataat atgcctagag tggttttaat 58860
7260 ttactatata atatataat atatgtgtgt atatataat atgcctagag tggttttaat 58920
7262 ttgtcagtgg gctgtctctg taatctatata gaagaaataa aatgttagacg ttatgtataa 58980
7264 tgatatttca tcttgggtgt tggcatcata gtaattctct ttacatatactt attcagatta 59040
7266 ctttgcacc agcctaatac attgtatgtatcc tccaaaacca aagagagtat ggattggaaat 59100
7268 gatattccct ttactaatac tcagtcgtt ctattttattt acctttatag acttcaccta 59160
7270 acacaagtc gggatattt atcatcatat taatacaatt ttactctgac cttaaaaat 59220
7272 tgcaactgtt aaaggaaaaaa tcagaacca ataaactgtc attacaacc cccctgaaaa 59280
7274 tccatatttt taaaatgtca ttttatacg tctctcagac aagatgtgtat accctataaag 59340
7276 tttatcgtt ttactttcc attttctctt cattaagggtg ataaagatta tcattatgt 59400
7278 aaaaattttc ctttatttgc ctccctttcc attaccctta ttgagtgtgaa aatttagcct 59460
7280 ctcataactt ctaaagttagc aatgttaatc tgataaaacta aaccaagggtg agataaattt 59520
7282 aagacaatattt ttttttctt caactttaa gttctggcgt acatggcag gatatgcagg 59580
7284 tttgttacat gggtaacat atgcccattt gattgtctgc acagatcaac tcatgcctt 59640
7286 gatattaagc ccaccatcca ttagctattt ttcctgattt tctccctccc ctaactccca 59700
7288 ctgacaggcc ctatgtgtgt ttgttccca ccatgtgccc acgtgttctc atcggttctac 59760
7290 tcccacttta aagtggaaag aagtgggtt tggtttctt ttcctgtgtt agttgtgt 59820
7292 ggataatggc ttccagctcc atccatgtcc ctccaaagga catgacccca ttcctttttt 59880
7294 tagctgcata gtattccatg gtgtatatgtt accacattttt ctttattccag ttatcattt 59940
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7298 tgcaggatc ttatataatg aattattttt attccttggt gatatacc cgtatgggaa 60060
7300 ttactgggtc aatttctgtt tccagatctt tgtaggaatca tcacactgtc ttccacattt 60120
7302 gttgaactaa ttactctcc caccacatgtt gtaaaagcat tccttttctt ctgaaaccc 60180
7304 tgcagcacct gttatttctt gacttataa atcaccattc tgactgtgtt gagatggat 60240
7306 ctcatttgc ttgtgtgtt accctttttt ttatatgtttt gttggctgca tgactgtctt 60300

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:29

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

7308	cttgtaagt	tctattcata	tcctgtctat	tcatgtcttt	gcccactttt	taatggggaa	60360
7310	gtttgtttt	tacttgcgca	tttgttgaag	ttcctttag	actctagata	ttagaccttt	60420
7312	gtcaaatgga	tagattccac	aatgttctc	ccattctgca	gattgtctgt	tcactctgat	60480
7314	gatagtttct	tttgcgtatgc	tgaaggctt	taattagatc	ctatttgc	actttgctt	60540
7316	ttgttgcata	tgcttttgg	gtttttgtca	taaaatctt	gcccctac	atgtctgaa	60600
7318	taatattgcc	cagattttgt	tctagggtt	ttatagttt	tggattttac	ttgttaagtct	60660
7320	ttaatccatc	ttgggttaat	ttttgtataa	ggtataagga	agtggccag	ttttaatttt	60720
7322	ctgtatatgg	ctagtcagtt	ctaccagcac	catttattaa	ttgtttttc	agtttccccca	60780
7324	ttgcttgttt	ttgtcagggt	tgtcgaagat	cagatgggt	taggttttt	tcactaacat	60840
7326	aatcataaaca	tacatttcat	tgaaaacaac	acgactcaaa	atgttcttta	gtaaccagtt	60900
7328	ataagttttt	ttgtgcataa	ttacaaactg	ccattcta	cataaacatt	ttgtggttac	60960
7330	ttatagctag	aaaatgttag	taatatagtt	tatacagcat	actcttaca	atcccgattt	61020
7332	cttgcataaa	ctttaattca	tattaaattt	ataaaagtata	cacaagggt	aaaggagagt	61080
7334	aattttcttc	aagtttcaca	ttaaggatt	catagtagaa	tgattaaacc	ttacatttct	61140
7336	ccactataag	gagaattaaa	atggaaatat	tgagtaaaat	cttacatttc	atttagtaag	61200
7338	tgctaataaa	gggttctgc	cataatttc	cttattttaa	aagaaaacac	acaattttag	61260
7340	ttttaggtt	tagtaacca	ttttatggc	atagtggaa	tatttctaac	agtttaaact	61320
7342	gaagtgcacca	tcatgggcat	atataatata	tttaaattca	catatatgaa	tactatacag	61380
7344	taaaaactaa	cttgcatac	ataccacatg	gatgaatctc	aaaaccatg	taaagcaaaa	61440
7346	aaaaaccaca	aaagaatcat	gccatttgat	taacttggg	ttgttttaa	aacaggcata	61500
7348	tctaaacata	gtgcattaaa	gtgtaaagct	gggttaggaaa	aactataaag	aaaagcaaga	61560
7350	aaataattac	cacagaagtt	atgttagaggt	tatctttggg	gaaggaagag	ggaataataa	61620
7352	gagagggaca	aagaagagct	tcttggttct	tgaaatgtcc	tatttctga	cttggctgg	61680
7354	gaatgcata	atgttcacta	tgtgataagt	cagggggctg	ttttcatttt	gttcacttt	61740
7356	atatatgtgt	ggattttcc	acagttaaa	aggtaaagtt	caggtgtgg	ggctcacacc	61800
7358	tataatccca	gccaacactt	tgcggggcca	agggtggaaag	aattacttga	gcttaggagt	61860
7360	tggagagtaa	cccaggcaac	agggtgaggc	actgtctcta	cagaaaatga	aaaaaaaaaa	61920
7362	aaaaaaatgg	ctgggcata	tggtacatgc	ctatagttct	tgctacttgg	gaggctgagg	61980
7364	caagaggatc	actttagccc	aggagttaa	gcctgcagt	aactagggtt	gtggcactgc	62040
7366	actccagcct	gggtggcagc	aagacactga	gtaaaagaat	aaaataaata	attaaaaatgt	62100
7368	aaaatatagg	aaaaaaatgg	catagccta	tgctaaattt	tcagttacta	ggtctgat	62160
7370	catcacattc	cttgcattgtc	attgaaaatt	ttttaaacta	tgataacttt	ttttagtgg	62220
7372	atttatccaa	ttaaatctgc	taacaattt	ggtgtataaa	tctcaagggt	aagggtatgt	62280
7374	ggagagtg	ttgtttgt	tgagagag	agagagaaga	gggggaggag	aaaaagaagg	62340
7376	aagagggaaag	gaatggaaaa	agataaaaa	gagttgtct	gatagattaa	tcttttagtag	62400
7378	atgtattccc	tacaaattgt	ttttctccat	attgcagtgt	caggtaaaga	aaggcatccc	62460
7380	aggatgaatt	cagagctagg	aacatgcacc	tttgtatcat	aatgcta	gaaggaacat	62520
7382	gtacattcta	actgttacca	ataatgaat	atatttccgt	tattaagtaa	taagctttaa	62580
7384	ttctttgtat	tttgcata	catttgcata	taggtgcctc	agcatttcca	ctctgctata	62640
7386	agtacatgga	gatataat	atthaagtca	tcttattcat	gtctttcaaa	aagaaattca	62700
7388	tttttggcca	aggatttcca	aattttccc	catatata	tatagttt	tatagacttc	62760
7390	gtttgc	aaaaatcc	ttatattcctt	ttagggacac	aataaaattt	tataagttt	62820
7392	agataatgt	cttgcatttc	tacctcaggc	cgtgggtgaga	gattgaagt	cctcttcatt	62880
7394	ttaacat	gggtcaagt	tgttgcataa	ggcata	atggaaact	gccttatttt	62940
7396	gagtttaat	aaaatcgta	aatacttctt	aatctaaga	gttata	tgactacaa	63000
7398	tatgtataat	tctctaata	ttaaaacaaa	acctgaaagc	cacaaaagct	tactgtgaaa	63060
7400	taaaatgt	tggaatatta	tttctaact	gttacactgt	atttcattca	ttgaagggaa	63120
7402	tatgaatgt	aaaagccctt	ttattgaaaa	gatgtttggaa	agtaaagata	actttttca	63180
7404	attcaattct	ttgttaatgt	aaaaagagta	aagataatgt	ttagctgtca	gcagatgtct	63240

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:29

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

7406	gacacttgat	ggagcgtatc	attacaatag	agcagctaac	aatatctgca	aaggcatca	63300
7408	tgaaagtata	aaaatgagga	atatttgcc	attgaccatt	tcagtgacct	cttttggc	63360
7410	tttaagtcta	aaaatctgg	cagatcagaa	cttataattc	ggcatttga	gtgtcaaattc	63420
7412	tctacatgt	gtgcaagtca	gaaggaggtt	ttacttgcaa	aataccatct	tctttcagaa	63480
7414	gttaaactca	cattaaatgc	caggagactg	aaacactgt	tttaagaaga	caaagtttag	63540
7416	aaaagatgaa	tgaaaatgt	tgttaaagaa	gagtcaccag	tcagagctaa	ctatgatagt	63600
7418	catagtattt	aaagagttgg	aacacatgaa	attaagcatt	ttgtaaaatg	aaggctttc	63660
7420	atccatccac	ataagattct	gacatttaaa	ctatgtttct	tccattctgt	tcacaggctc	63720
7422	accttgcag	agctttgaa	aagagcttag	ggaatatgac	tggccgattt	caaagtctaa	63780
7424	ctatgacagc	ggaacaaaag	gtatgttcag	aaatttgcac	tggagactga	aagaagacag	63840
7426	caaattgcat	aggattctt	aataatacct	gaagctcctt	aaaaataata	ttccaggctg	63900
7428	agtgcagagg	ctcatgcctg	taatctcacc	actttggag	accaagggtt	gtggatcact	63960
7430	taaggtcagg	agttcgagac	cagcctggcc	aacgtggtaa	aatcccatct	ctactaaaaa	64020
7432	cacacacaaa	aaatttagctg	ggcatggtgg	cgggtacctg	taatcccagc	taucgcaggag	64080
7434	gctgaggcag	gagaatcact	tgaacccagg	aggcagagga	cgcagtgc	caagatcaca	64140
7436	ccactgcact	ccagcctggg	agacagaaca	aaaaaaagag	taataataat	aaaataataat	64200
7438	tcaattctat	actaaattaa	aacaatgata	atacctttct	tttcagattt	taattttaaag	64260
7440	attttatcag	tttactccat	attgaaacac	acaaaaggcaa	acaaaatct	tgttggcag	64320
7442	tctattaatt	tacttctgga	tgaaactagt	aaaagaatac	tgaatgttaa	gaaagagaaaa	64380
7444	cagtccacata	agagaatatt	ctgggggcaa	actgttatgc	agttgacaag	aatcacactt	64440
7446	tgataagaac	tttcacaaat	acatggtcac	taaatccago	tatagggcat	ggctgttaggc	64500
7448	taagacacac	aggaaggatg	cctgggactc	tgccaagtaa	gggacttcag	gttacagcag	64560
7450	ctatgaaaca	aaggccaatc	ctgtgttaatt	ttgaaataac	aagaactagt	tgccatctag	64620
7452	ggatatcacc	tttgaagaaa	agtcattttgt	tatataaaaa	tacttaaaat	gaacctaaag	64680
7454	gattttatgg	tatgaaagaa	ggtataccaa	aaagaaaagga	acggagaatt	tagttcacga	64740
7456	agacaaatgt	attaaaaagg	tccatactgc	atagaaaagcc	tggtcacattt	tcctgtgatg	64800
7458	accagttagc	ttacttctct	gctgttagtc	cagtggcctt	aacttcctt	gataggtatc	64860
7460	agagataggt	gaaacctata	gaattctatg	gagttgtgtt	gtgtgtgtgt	gtgcgtgcgt	64920
7462	gtgtgtgtgt	gtgtgtgtat	gaaaactgta	aatgtgcata	aatgatcagg	tgtccagagc	64980
7464	tttcatctaa	ttctcaaaga	gaccattat	atcagaagtt	ttgggtattt	tcaagaatgc	65040
7466	gttcctctat	ctatccatag	gaatggcttc	agttttgtct	ttagattctg	taagttatgt	65100
7468	gattagctt	acaaaatgt	tatgtattac	caaattttgt	cactttacaa	aagtttattt	65160
7470	ttaaaacaga	atgaatagtt	caatgaaatc	aaaagagtaa	atcgaatatt	cttataattt	65220
7472	ccaagtatta	ttagcacatt	gtattctctc	tcatattctc	cgtataacc	gcccgtgaga	65280
7474	gagaatatta	tccattccctg	gaaaatctgt	tctagcacag	ctaacaaact	cottttgaaa	65340
7476	cataaaattt	cctttcttc	ctccctccct	ccctccttcc	ctcccttct	tccttttcc	65400
7478	ttttcttcc	ttccttccctg	cctttttct	atccttccct	tctcctccct	tacaccctt	65460
7480	cttccttctt	ttccccctct	gtctccctct	ctttttttt	tgctgcagct	tgtcacttca	65520
7482	ctatgtata	taagaacca	gcaaatagaa	ttagaaggct	tttttagagca	gctgacggga	65580
7484	aagaataaaaa	acactggccc	ccagtttct	tgaatgagaa	ttctggctat	gtctgttaaa	65640
7486	agctgggtaa	tcttgagcaa	gtttatctaa	cctttcttga	acctcaaatt	caccccttta	65700
7488	aaagtgggaa	tgataatgac	tacctttag	gatcaccatg	aggagtaaat	cagatactgt	65760
7490	tatcatgtca	catgttaggg	gctacaaaaa	aatattacct	tccttacat	ttctcttttt	65820
7492	ccctgaaaaa	ttataagata	acaccaaatt	cctcactggg	catataccaa	gcatattgtt	65880
7494	ggaaatgagt	gtttagaattt	aagtctcaat	atcttaata	agtcaaaattt	aatagaattt	65940
7496	ttgtccctca	cccaatattt	tcttgaactc	tgttatatct	gtaagtgaat	tttctctat	66000
7498	aaacatacac	agaatttct	catatacata	tagaaaaaaa	tgttagaggtt	tgttaatgtt	66060
7500	taatgcctat	gattaatgcc	tgaatattt	aaaataattt	ctataacata	agagatttt	66120
7502	taatgtgtct	acataatcc	taaaataaca	ttgccaaaat	tataaaattt	tctcagaaga	66180

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:29

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

7504	tatcagaatg tctcatattg tccttatcac ttttttaact gaaaataaaaa tcacttcttt	66240
7506	ttgaattgca aactgtatac acacaacaat catggtaac tagtttatta atttgagatt	66300
7508	ataacttgc tattctcaaa gtgatattta aaaggctata aaattatttg caatgtgaaa	66360
7510	tggtataatt caaagacaga atctaattaa aaccagtaga ataatgtata taacaatata	66420
7512	cctcagccta gataattact actgcaaggc actgaaatga attgaatttc aaggaagcta	66480
7514	tggtacaaag ggagattgtt aggtgtttt tattctcatt ttctgaccag gagagcataa	66540
7516	tttagactga ggagaaaact ctttggcact aaattcaagg acgaatttat tgccaagggtt	66600
7518	tttaaattgg ggtcatggaa taacaaaaga caaaatcact gttcaatag acatttctct	66660
7520	aaaagctaag ggcataacat ttaatcatat ttcaactaaag gcatttcttc agggagctga	66720
7522	gataaaaaggg tatattgctc tctggtgatt caacaatcct gagaaaaggc ttgtgaagta	66780
7524	tagacgag attttaaac tcccttcccc aagttataag tttcatttgc ctatatagtc	66840
7526	attcatcaag tttatattga atttgtgctc ttctaatgac aaaacagtag acacaatata	66900
7528	gatatagaat gatagatata ggtctatatac tatagacata cctatctact agaactctaa	66960
7530	aagcatatta tacatgtatg taatattcct catggagttt atatttctca tatataatctc	67020
7532	atataatgt atctctttat catggagttt atattttagg aggtcacaga tgataataaa	67080
7534	aatataatta aaacaggccg ggtgtggta ctcacacgtg taatccttagc actttgaaag	67140
7536	gccaaggccg gtgactccc tgagatcagg agtcaagac cagcctggcc aacatagtga	67200
7538	aaccccatct ctactagaaa caaaaattag ccaggctgg tggggcact ctgtagtccc	67260
7540	agctattcag gagttgagg caggagaatc acttgaacct gggaggtgga gttgcagta	67320
7542	agccgaggc atgccaactgc actccagcct gggcaacaga gcaagactct gtctaaaaaa	67380
7544	aaaatataata tatataatata atataatata tatataataa tatataattataatata	67440
7546	tataaattac atatttataa atatgttaatt tatataatata atatataattaaaatata	67500
7548	ggatttcagg ttagtataaag cactactgaa aaaagtaaaag ctgagaatga ggatactgag	67560
7550	aagctggttt ggaagctaaa acacaaaagta acaaaggcca aggtggttac atgttcttga	67620
7552	ttacatactt taaaaatgga taaactaaat taagactcag attctagtc ttgggcttca	67680
7554	cagtgtgatt tttagcaatc acatggcatt aatagcctga aactacatca aaattgtcat	67740
7556	ttgatttata gacccaaaata actccctga atagagaggg attcactcct aacacttttc	67800
7558	ctatttccag atgccaaaata acacggaaatc tcttgcctt tttgtgtggc agaacactgg	67860
7560	ttttatatac ttatagcctg gtaagaaaaga aaagacatgt atgaataact tagaaggcag	67920
7562	aaaattatca tgctatttga cttagtacaa tgcattgtgc attctcaaag gaaacatctg	67980
7564	cagagccagg agaattgctt gacccctgga ggtgaagggt gcactgagct gagatcatgc	68040
7566	cactgcactc cagcctgggt gacagagaga gactgcattt caaaaaaaaata aaaattacaa	68100
7568	aaataaaaaaa taaaaatag ttagtcaatct ggcagcattt tctgaaagtt aagcagttt	68160
7570	cccaatagct gctaaaagaa gacatgttat ataatactaa gtcgttaagt agtaaaaat	68220
7572	taagagaatt gtaatgtgc ttgctggggta gtagaaattat ctctaggcat taccctatac	68280
7574	ctaacctagg actcagtaga ctatgatatt ggcgttagtt gaccaagaat ttatcctga	68340
7576	tttcagatcg ttttctcttc accagcactt cttcaccagg attatatgaa aaaaattaaaa	68400
7578	cctgatgccc tgaggcatcc attatatgtt ctgaaataac ttctttctc accatctaga	68460
7580	atggtacttag ctatgtacca ctcttgcattt aatcaaggaa attgcatttc aaatcattgt	68520
7582	gcagcttaat ttctcagac aaggccagtt gagaaggctt caactcttagt gatccagca	68580
7584	aactatattt ttataatgtt acatttttac agaactactt ctaatcctt gtgttcaat	68640
7586	ttactaaagc tatattcaca gctaaatatt tcagaattta aaattaaaaa gactttcaaa	68700
7588	ttatgtccct gtagctgtca tgccaaaggca attagaacat atgttaaggat atgaggggtt	68760
7590	tttcttggta gaaggtcaga gcagggcaga gaagtagccc cttgtatgag ttagtggaa	68820
7592	cagatattga ctcctatgct aaccataaag ccttagtagtt tgctcatttgc ttacctctc	68880
7594	gaaacatttt ttgggtgac tacaaaacag gaattgaaac cttcaaaaata agggatattt	68940
7596	aaacccaaatc ttgaaaata gataatgtc caactaaaaaa ttttagtggaa taagatttt	69000
7598	acattaactc tccctaaattt acgttatgat atttgcattc tagaagtgtt ttaaaaat	69060
7600	atattgctgg agtcagatga tgcattccattt aatcttggg gcatagaata atgtgaatct	69120

RAW SEQUENCING LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
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Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

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Input Set : A:\SEQUENCE LISTING.txt
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7700	gttagaata	tcaccagata	ttcccattgt	tgaagcaatt	ttctgcaaa	gcccgtgtgg	72120
7702	atgatcttt	taaaatata	attctggag	acattgagta	aagagaaatt	atttaccaga	72180
7704	gaatgaagaa	ccgaggccc	attcttggc	tttctgcaa	agatgctgaa	ggcagtgtat	72240
7706	aatgacaat	acatacc	gaaattctcc	ctctaagagg	ctgacaaaga	tctgattttt	72300
7708	aggattata	taccacca	aagataccc	ttgtcactga	gcttctaatg	gaaatatgg	72360
7710	ctatactgaa	acaattctca	gttctttt	tttctatctt	ttttttagtt	atttatctt	72420
7712	ccaaaaatga	gttatttctg	ataaaataat	tcacttaat	aattatgaaa	gttcaaattt	72480
7714	gtgcaaata	ttttatttgg	acatcttaa	attactctaa	attcaaaaag	aaaatataat	72540
7716	ctttatttaa	atttgcatt	taagctgctt	tgttgtat	ttaactatta	tataaaaatt	72600
7718	gtataata	caataat	ttactttt	cctgtgtgc	tttggcttgg	tgagactagg	72660
7720	tctccacatt	aggagttt	ctgaatgaaa	aagatcaga	atgtacatg	actttgat	72720
7722	ggcatcagaa	tttaataa	tgacattta	tagaattag	gggtaagttc	caggtttac	72780
7724	acttaaaata	aaataatca	ttttgcaggc	acaaaatact	tcaaaca	tctgaaatca	72840
7726	ttcatttgc	aaaacttc	gtttgcagtt	gacaataat	acaatacaat	gcaacagtgc	72900
7728	aatagtgata	tctaaata	taatgtatc	ataggtata	ttagtaagt	tgttatctg	72960
7730	aatgagtgg	gtgatatc	gtttaactt	gtactggta	gttctgggt	ccaccttga	73020
7732	aaggaataaa	gactatt	atctcttta	taagacaata	agaaaaacaa	acaaacaaac	73080
7734	aaacaaaaaa	ccacccctt	tactttag	gagaagaag	ttattagta	cagcttgaca	73140
7736	agttcagct	agcatccaa	tcttccagga	ggtgttact	acataaaatc	aaacctttt	73200
7738	aattcaact	tgagcagg	gattttattt	ttcttcggg	tactaaagct	tccaaactct	73260
7740	gtttatttca	caggaatct	aacttata	actaagagaa	accattgaaa	tgctgaaggc	73320
7742	tcagaattt	gctgccagg	cggctattc	gggagcact	aatggccag	accatcctc	73380
7744	caaaggta	tttagaaatc	atttcattc	caccaat	aataggcatc	tatttattt	73440
7746	attaattaca	gtagaact	atttactc	tgtcactgt	cattattaat	acataactag	73500
7748	tgttattaa	gttgtat	tacatact	tagtattaa	acatactac	ttgttattaa	73560
7750	tgtgatcaga	atcctagaat	tttagaacag	tgacttccat	tatcagataa	tttttaaact	73620
7752	gatcttaa	aatttgg	tatagttg	tacacatctc	tctacttgat	tcagtggaga	73680
7754	tggagatg	gtgggtgg	aatacatg	tatctgactt	caggcaaaac	aaacccat	73740
7756	atagatgat	taatctag	ctgttattaa	aaatgaaata	gtcaatatg	tgatatag	73800
7758	agcagtggc	atttggaa	actttcc	gatggaggct	ataaaaagg	acatttcc	73860
7760	tagataattt	tgaaacaata	aaaacaac	gtgaaaggta	gtctgtttt	aaattattc	73920
7762	tatgcttaa	caattctaa	caatgaaagg	ggtatttct	ccactgcccc	tacccctgg	73980
7764	ttcaccact	aagaaatgc	cattattaa	atcgtgtat	tttttcc	tacattgg	74040
7766	ctatcttact	atttcc	actttcaat	ggccttc	gagctcag	cttcccag	74100
7768	ttaaaaatc	ctgtcc	acatgaaat	cttattatc	cttccat	ttccagaaga	74160
7770	attctgagaa	aaattttat	aagtcttca	atgtctc	ccatctt	accactgg	74220
7772	tgtagctc	tttcc	ctccacca	acaatgtct	ccaggatc	cagaaact	74280
7774	catgacact	aattcag	aacgttata	attttatt	tattagac	acatggaa	74340
7776	agcatttgc	gctgatatt	atttcc	atgtgaa	tccgtt	ctaatgtt	74400
7778	tgacatcata	cattcttgg	tttcttct	ttcc	atattttt	aatattt	74460
7780	ttgtaaattc	actt	atccattt	taattgt	tatcct	taag	74520
7782	tatgatttca	tgcatt	ttaaaatata	tagaaaatc	tctcata	tagt	74580
7784	ttttattaa	gtgctat	ctaata	tcaatct	gtctcc	caggct	74640
7786	atatccag	accaagag	aactcc	ggatatctt	ggatgt	tttgc	74700
7788	aaaccta	tctccaa	tgcactt	ttctgtct	gacctg	tcctc	74760
7790	cttttg	caggat	caccacc	cttccat	gccagaa	taagtatt	74820
7792	tcataact	tcctc	attgaaata	ttaccaag	ccgtt	gatcc	74880
7794	atatctt	gatgtt	ctttct	atttact	tgccat	cac	74940
7796	ctgaaccat	accacaa	cctaaat	cttc	ttaatctt	cctg	75000

RAW SEQUENCE LISTING
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Input Set : A:\SEQUENCE LISTING.txt
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Input Set : A:\SEQUENCE LISTING.txt
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7896	ctttgtgctt ttctattttgt gaaagttaat tatttaggaac gagctagcaa atgctacttc	78000
7898	ttttcaaaa agctaattggc caatcacagc aaaaatttaa agcactaaga aatacctaca	78060
7900	catattcttc tattgcccattt ttagatgact tccataatag ttgattaaag gataccggat	78120
7902	tcctttattt tgaaattaaa acctcctaca tgaaaacctt gatttaggtt tagaagttgg	78180
7904	taatgttttg gcatgcaaaa ccagttaatg ttctcatcat tacttttaa aacaatgtta	78240
7906	agagatgaat tctagggatt ataaaaaaaaa aaaagctgta tgtgtttctt cctataaaaat	78300
7908	tttcagcat gattgcctca gtagaaaaat taaggactt attgatataat atgtatata	78360
7910	aggtgaggat acacatatac acacacacat atatatgtag gtaaatacat atattacatg	78420
7912	tctatcaatc catacatact catttattt acgtttgaa agcaaccagt tatagttttg	78480
7914	ttgccatgga tcatttttac tattcagtaa atcagtcaat tgaagaggct tgattttatg	78540
7916	gtattagttt tttggaaact gtcagctta tagtaaattt tgacatctta caacttccac	78600
7918	tgagattttt ttgcttact aatctgcctt gatgccaata agtataattaa cgaaaaatgga	78660
7920	ctaaaagcaa atgtgacttg aagcacaattt ttgtaaattt tcttagtg tcagtaatac	78720
7922	ttaatacttag tgcattttttag gtagaaaaat tttcagtttgg ttttattttta aataactata	78780
7924	aatcttatac ttgctttagt aaaagaaaaa gatacctta acatgatata atatcaaatg	78840
7926	ctattctt caaaatatct taactaaaga agcactgcct gctcttagaa gtaagcaag	78900
7928	gccataccat atgctgcgtt catggctttt aacacaatgg atattagaaa cagcctaagg	78960
7930	ctgagcctgg ctccactatt tttcagctat gtgaccatgt gaaagttaca ttttagtaatt	79020
7932	aaactcattt cagtagttt gtttaagaat aaaatttagt actccggggg catatcaagc	79080
7934	atattgtaaa acctagttt attattattt gttattggta ttactattac tattctataa	79140
7936	taagtcatgg gcagggcagta ggggtacattt ggaagaattt cactgtctt aatatgtcct	79200
7938	ctgttaact cacaactca gtctacccat gcttctttt gaggatctgc ctttcattgg	79260
7940	ctgtttgact ttggccaagt tacttaactt cttttcactt cagttccctc atctgtgaga	79320
7942	ttatgtgctt acatgacttc aggtttttt ttggctctaa tatggatgaa ttctatgaaa	79380
7944	tggaaagttt atacattttgg ctctagtaac tgtattttgaa gcacaaatataaaaaagcac	79440
7946	aattaattct cattctgagt ttccattttac ttttttaat taatcattca gaataaaatca	79500
7948	ttttggaaaga gctgcttgc ccaggtattc agtagaaatc actagcatag catttaattt	79560
7950	tagacaaaac tgagaactca ttaaactgcc agggctatgg acttataatgaa gattctcatt	79620
7952	aaatcttaat gtagataact cagtttaattt aaacaaaatattt gtttactt tattaaactt	79680
7954	ctaaagtc当地 aactgcattt aaattatctg tacaaagcct tttttttttt tatttagagaa	79740
7956	ctgcctctca aaagacctaa aagacttattt tttttttttt tttttttttt tttttttttt	79800
7958	gtgataactct ccctcttattt tttttttttt tttttttttt tttttttttt tttttttttt	79860
7960	tttcttagtat caacagtgc当地 acaaggcattt ccagtattttt tttttttttt tttttttttt	79920
7962	ccaagaagaa gaaaaagaaa aactgggtaa gtttccatcc tttttttttt tttttttttt	79980
7964	attaatgc当地 aatgtgttag gcctttttt tttttttttt tttttttttt tttttttttt	80040
7966	aaagggtccc attcaagctt ctgagacctt aatgtcttca cttttttttt tttttttttt	80100
7968	ggcatgtact gaaaagcata cttttttttt tttttttttt tttttttttt tttttttttt	80160
7970	tatatacttgc当地 cttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	80220
7972	actatattttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	80280
7974	actatacaaa ctatgttagt taactataga ttataactaa agaaaaataaa gataacatct	80340
7976	gtgataaaat ggctttttt tttttttttt tttttttttt tttttttttt tttttttttt	80400
7978	aaatgtatgat gatgggtatg atgatgttgc tagtggctt ggaggaaaag gagaatggga	80460
7980	gttataaaag ggaaagaata aacaatggaa ctcttatttcc acctttggaa tcgacaggcc	80520
7982	ttaccgtgtt aatagtttca ccctttttttaa aatcaaccac attagtttgc gtttgcgtt	80580
7984	tttaaccaag agaatatacg agaaaatatacg aatgtttttt tttttttttt tttttttttt	80640
7986	tttgcgttgc当地 atataattttt tttttttttt tttttttttt tttttttttt tttttttttt	80700
7988	gttactgc当地 aaaattttttt aacaatgggg tcaatgtttt cttttttttt tttttttttt	80760
7990	atgtatgat tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	80820
7992	tactggatgt cttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	80880

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:29

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

7994	acaggtaata	ttttaaaata	ctgatcagcc	ttcattccct	tgatttgtaa	ttccacac	80940
7996	tttcatgttt	ctgcaagg	tgtaactctag	gaagtggat	gaanataaa	cgtggaca	81000
7998	ttggcatgga	tntataaaaa	aaccctac	tggcatgaat	gctatccatt	ttggcagtag	81060
8000	gcttttatac	cttttaaaac	agattac	gtatgtctt	tctttgtgtc	tttcatttt	81120
8002	aatctcaa	tttaaagaga	tgtaaaacca	ctttctgaat	agagctgt	gggatacc	81180
8004	ttctggttt	gagtagtct	gggttggaa	atttgaat	aaaaatcaca	attaatgaag	81240
8006	tgttaggtga	atttgattt	attttgc	ttaagttgt	actgtcagca	ggacatgact	81300
8008	tgattgtac	gctaaagtgg	ccatttaaaa	caaattgc	tgaagagaga	agcattgg	81360
8010	atggagatc						81369

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:30

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

L:11 M:270 C: Current Application Number differs, Replaced Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:15 M:259 W: Allowed number of lines exceeded, <150> PRIOR APPLICATION NUMBER:
L:17 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
L:152 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:156 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:160 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:164 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:168 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:172 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:176 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:180 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:184 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:188 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:192 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:196 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:200 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:205 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:209 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:213 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:217 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:221 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:225 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:229 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:233 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:237 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:241 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:245 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:249 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:253 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:257 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:261 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:265 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:269 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:273 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:277 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:281 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:285 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:445 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7
L:449 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7
L:453 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7
L:457 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7
L:461 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7
L:465 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7
L:469 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7
L:473 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7
L:477 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7
L:481 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/914,549

DATE: 09/27/2001
TIME: 12:13:30

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\09272001\I914549.raw

L:485 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7
L:489 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7
L:493 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7
L:497 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7
L:501 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7
L:505 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7
L:5293 M:250 E: Invalid Numeric Identifier, INVALID IDENTIFIER
L:5295 M:282 W: Numeric Field Identifier Missing, <212> is required.